

## APPENDIX 8B. LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS

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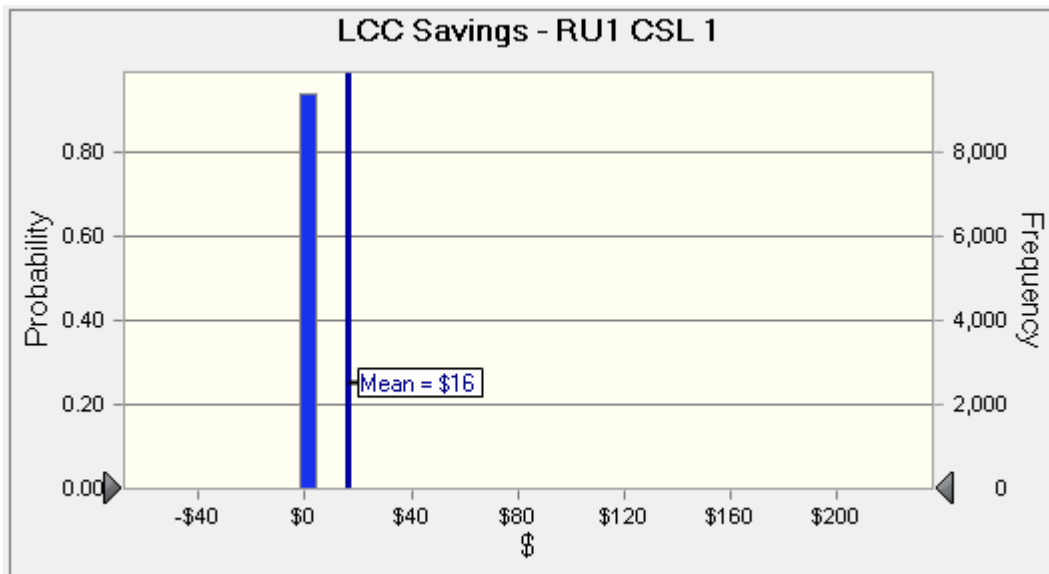
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## APPENDIX 8B. LIFE-CYCLE COST AND PAYBACK PERIOD RESULTS

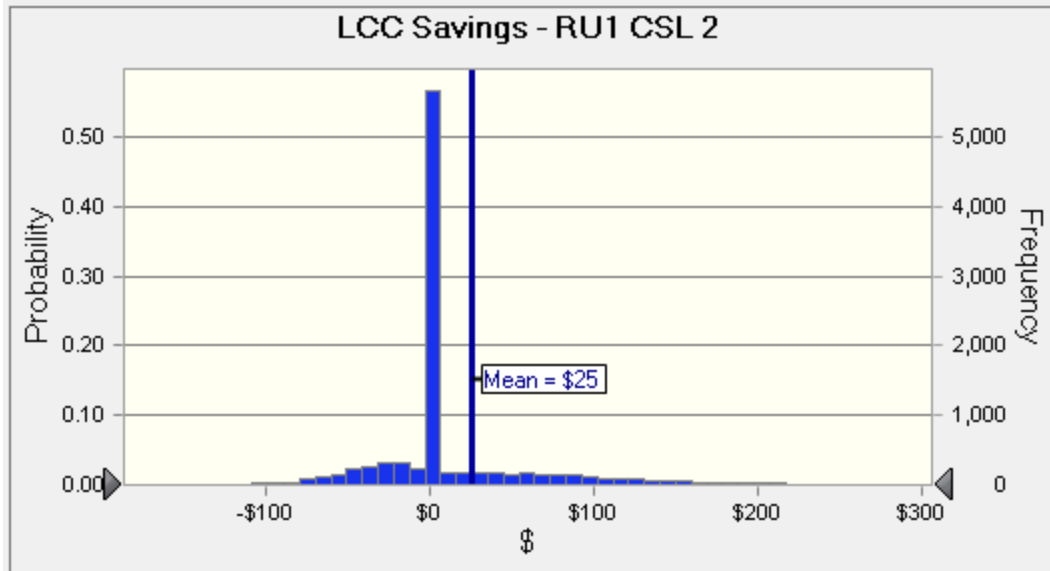
### 8B.1 DISTRIBUTION OF LIFE-CYCLE COST RESULTS

The distributions presented in this section each correspond to example runs of 10,000 Monte Carlo samples. As a result, their means may not correspond exactly with the mean values presented in the life-cycle cost (LCC) section, which were generated by a different Monte Carlo run.

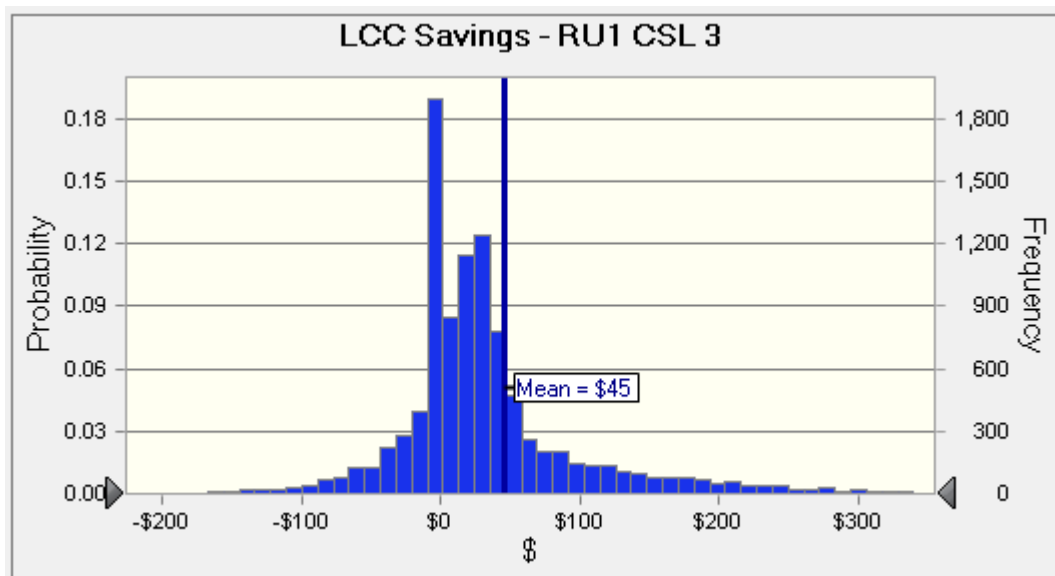
#### 8B.1.1 Representative Unit 1, NEMA Design B, 5 hp, 4 Poles, Enclosed



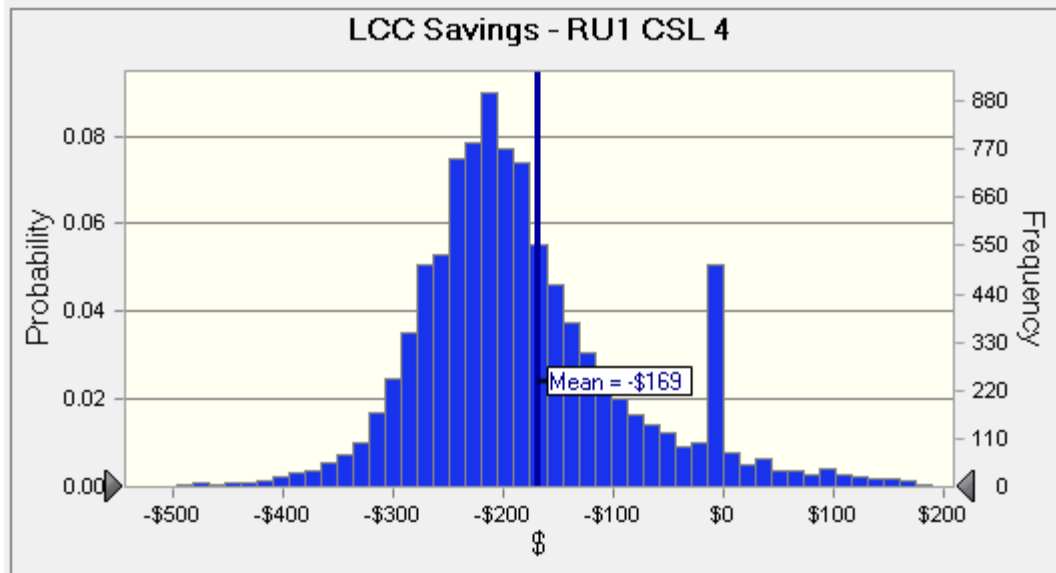
**Figure 8B.1.1 Representative Unit 1: Distribution of Life-Cycle Cost Savings for CSL 1**



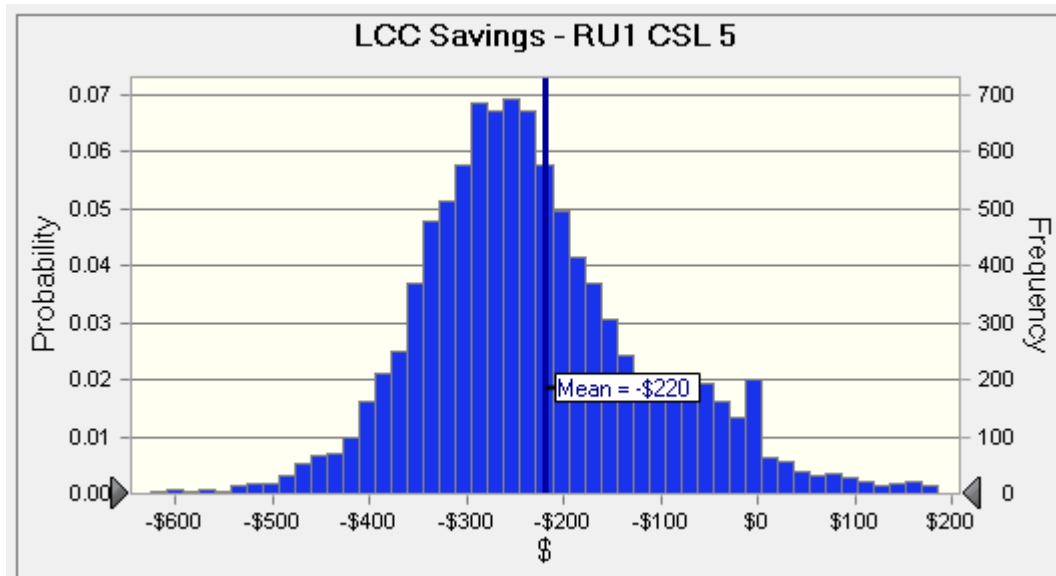
**Figure 8B.1.2 Representative Unit 1: Distribution of Life-Cycle Cost Savings for CSL 2**



**Figure 8B.1.3 Representative Unit 1: Distribution of Life-Cycle Cost Savings for CSL 3**

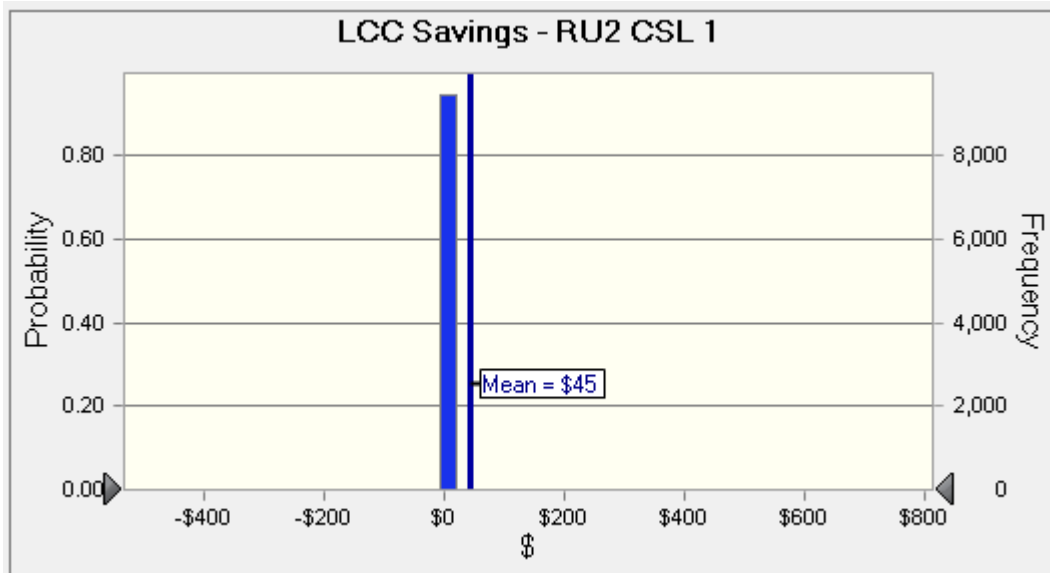


**Figure 8B.1.4 Representative Unit 1: Distribution of Life-Cycle Cost Savings for CSL 4**

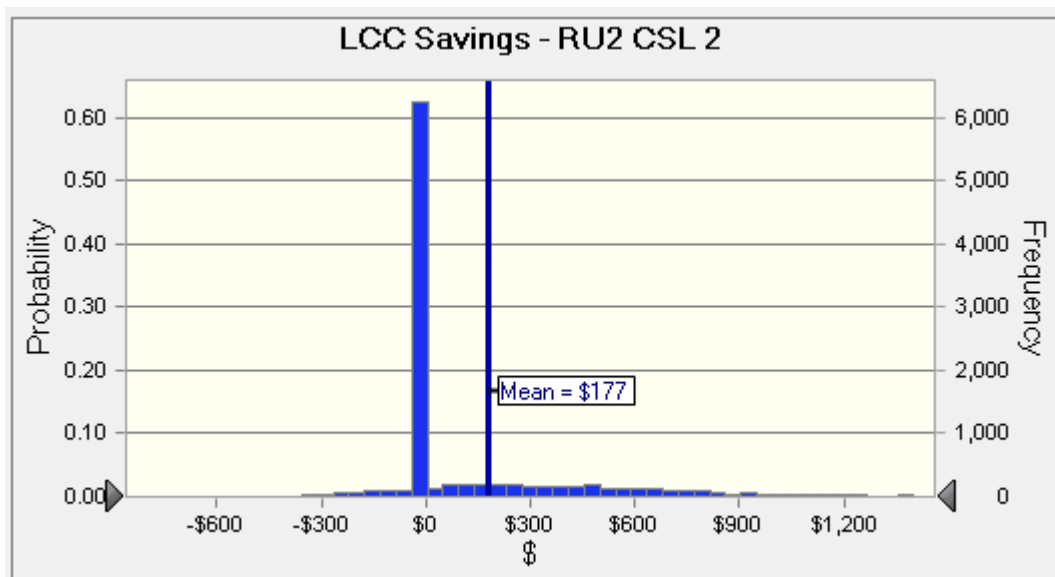


**Figure 8B.1.5 Representative Unit 1: Distribution of Life-Cycle Cost Savings for CSL 5**

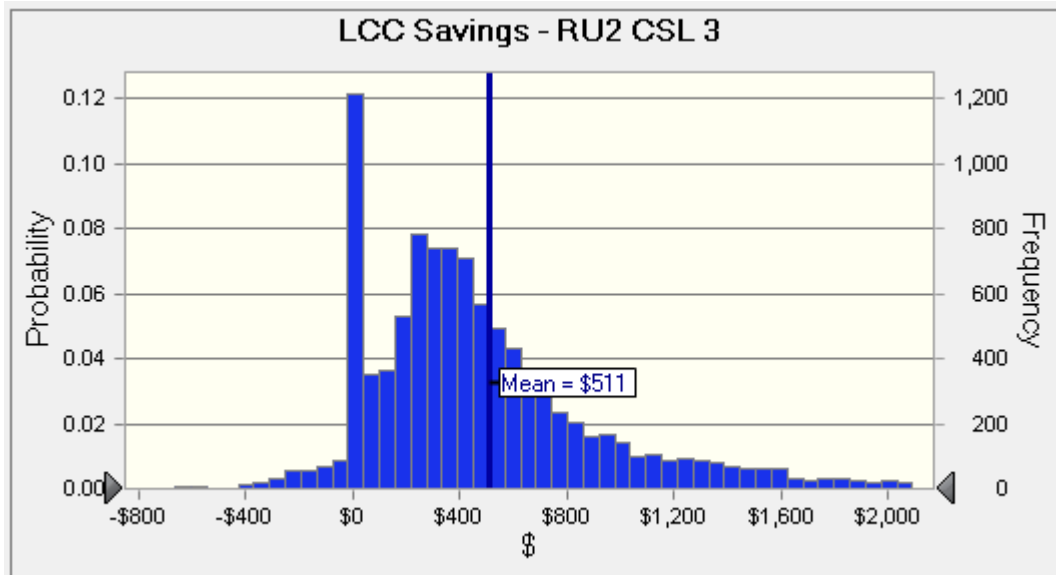
### 8B.1.2 Representative Unit 2, Design B, 30 hp, 4 Poles, Enclosed



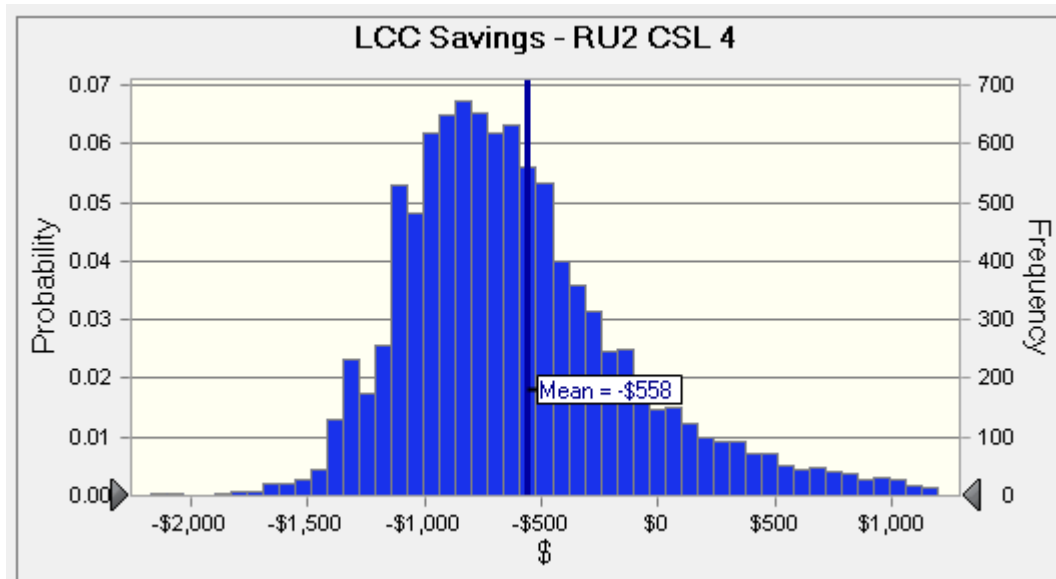
**Figure 8B.1.6** Representative Unit 2: Distribution of Life-Cycle Cost Savings for CSL 1



**Figure 8B.1.7** Representative Unit 2: Distribution of Life-Cycle Cost Savings for CSL 2

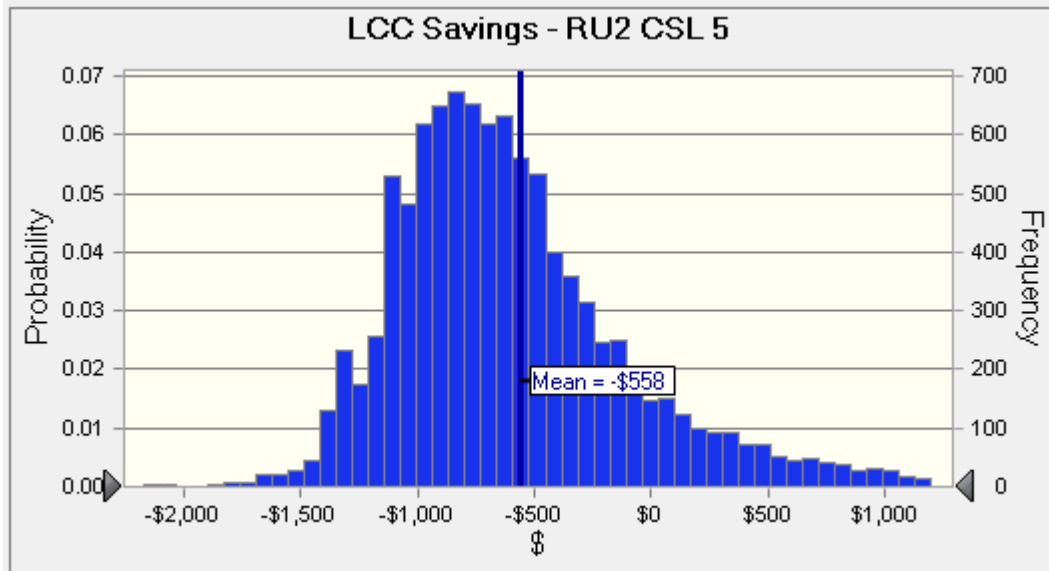


**Figure 8B.1.8 Representative Unit 2: Distribution of Life-Cycle Cost Savings for CSL 3**



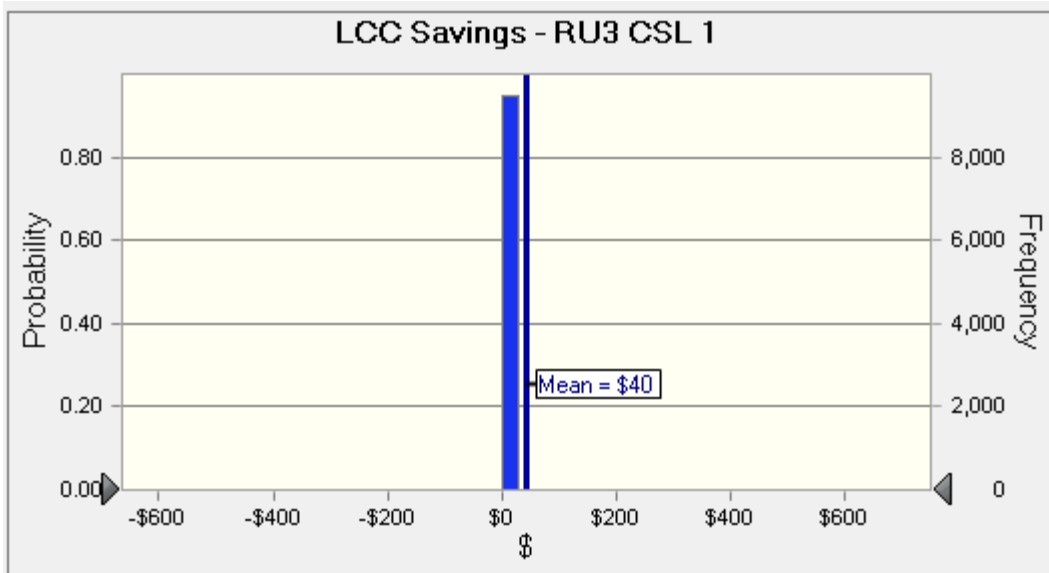
**Figure 8B.1.9 Representative Unit 2: Distribution of Life-Cycle Cost Savings for CSL 4**





**Figure 8B.1.10 Representative Unit 2: Distribution of Life-Cycle Cost Savings for CSL 5**

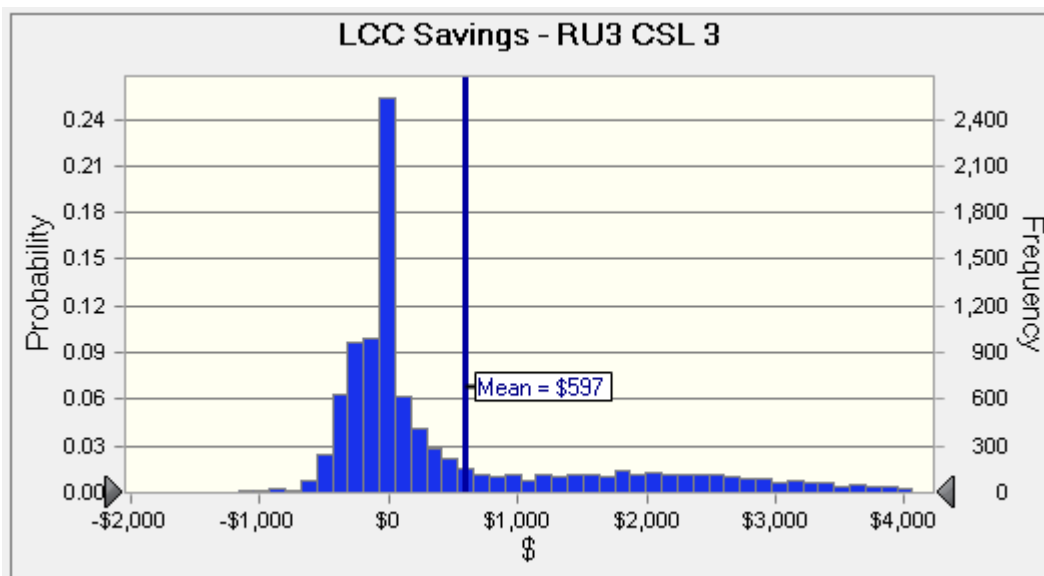
### 8B.1.3 Representative Unit 3, Design B, 75 hp, 4 Poles, Enclosed



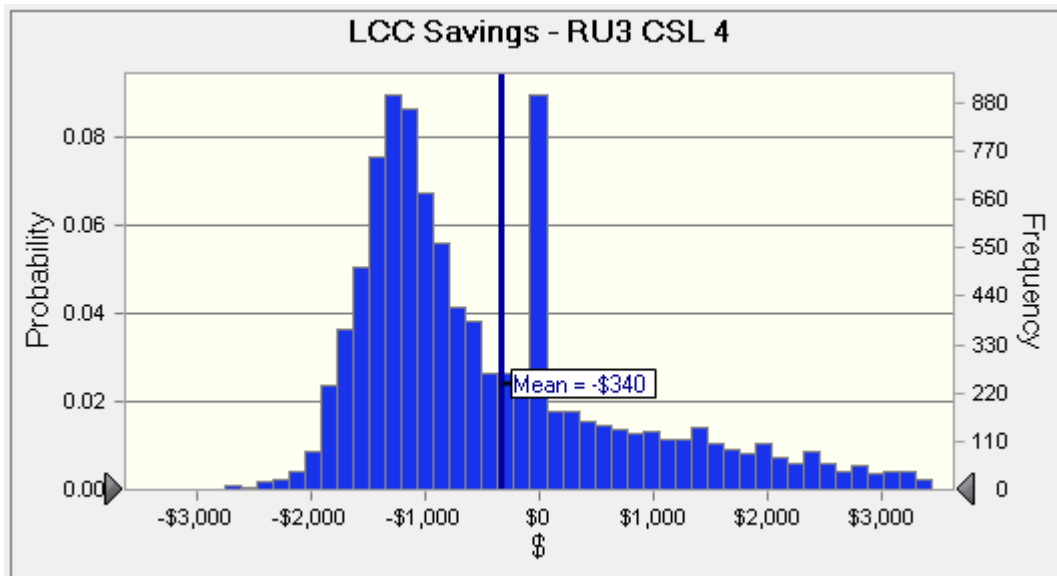
**Figure 8B.1.11 Representative Unit 3: Distribution of Life-Cycle Cost Savings for CSL 1**



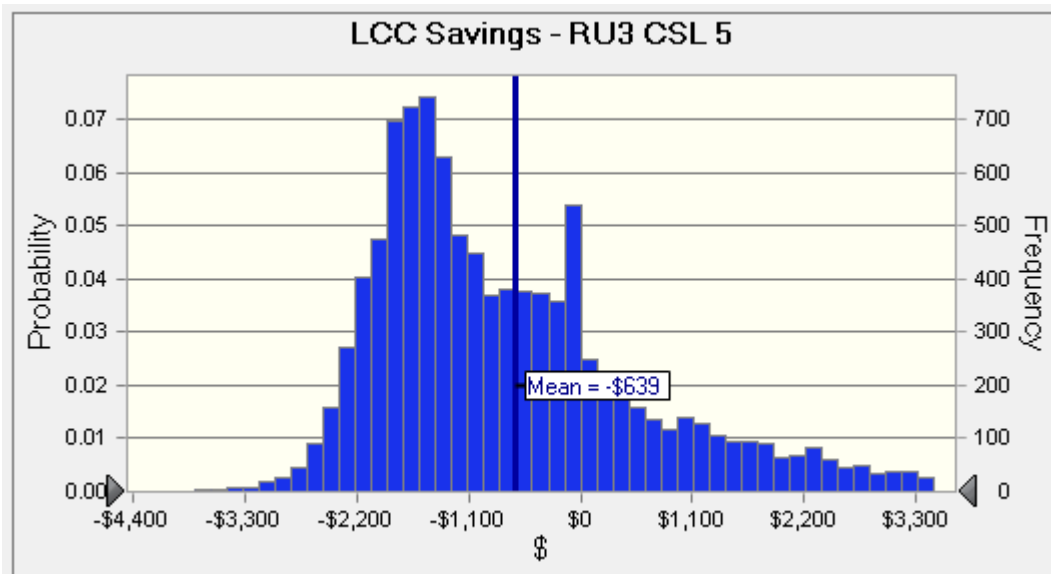
**Figure 8B.1.12 Representative Unit 3: Distribution of Life-Cycle Cost Savings for CSL 2**



**Figure 8B.1.13 Representative Unit 3: Distribution of Life-Cycle Cost Savings for CSL 3**

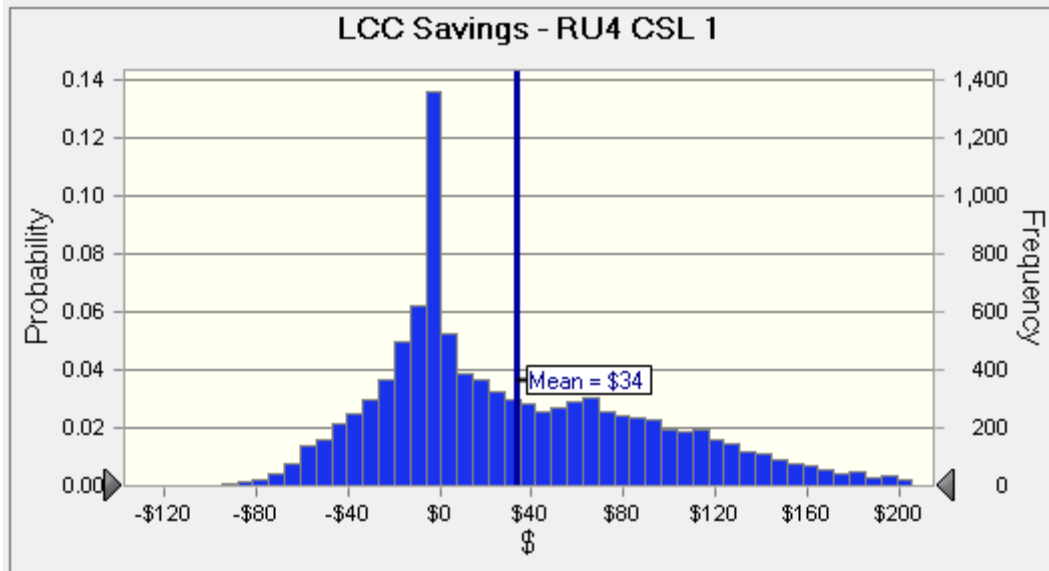


**Figure 8B.114 Representative Unit 3: Distribution of Life-Cycle Cost Savings for CSL 4**

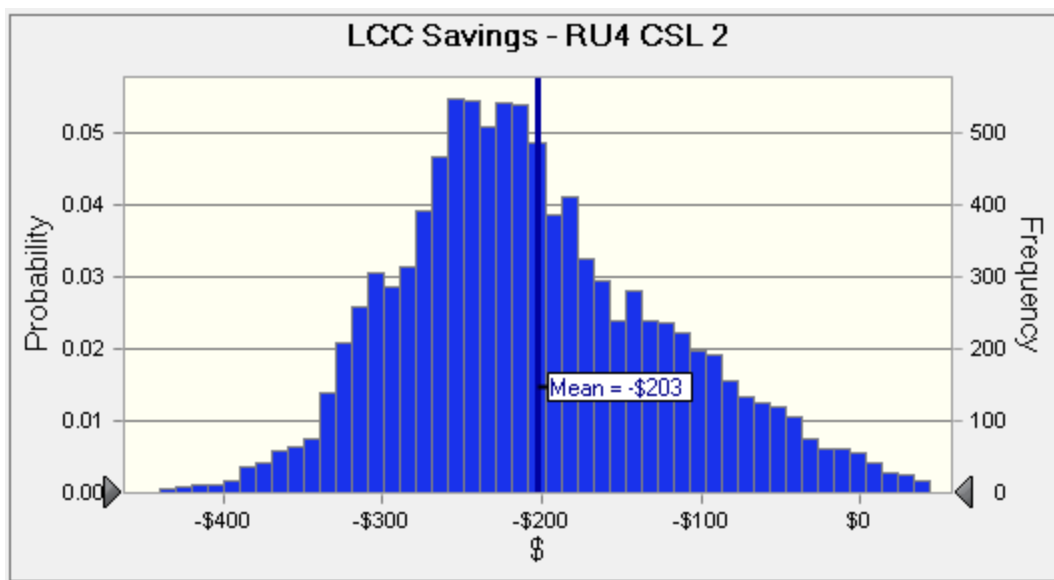


**Figure 8B.115 Representative Unit 3: Distribution of Life-Cycle Cost Savings for CSL 5**

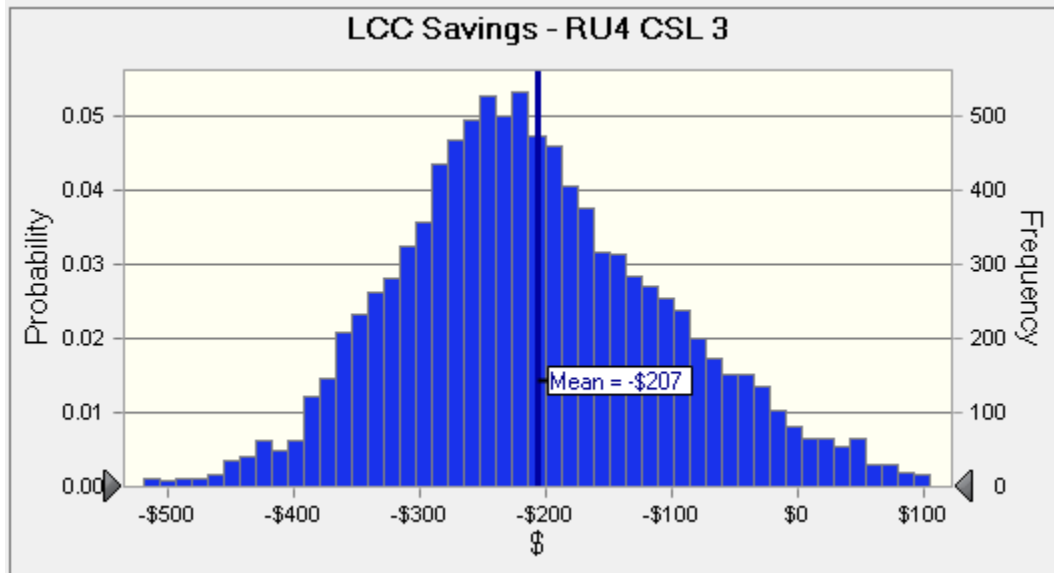
#### 8B.1.4 Representative Unit 4, Design C, 5 hp, 4 Poles, Enclosed



**Figure 8B.1.16 Representative Unit 4: Distribution of Life-Cycle Cost Savings for CSL 1**

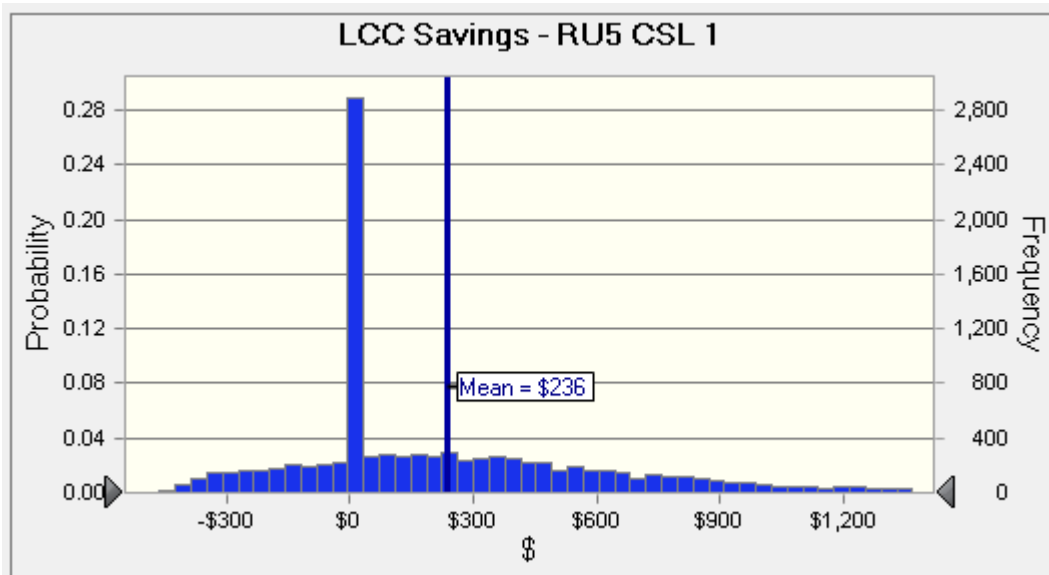


**Figure 8B.1.17 Representative Unit 4: Distribution of Life-Cycle Cost Savings for CSL 2**

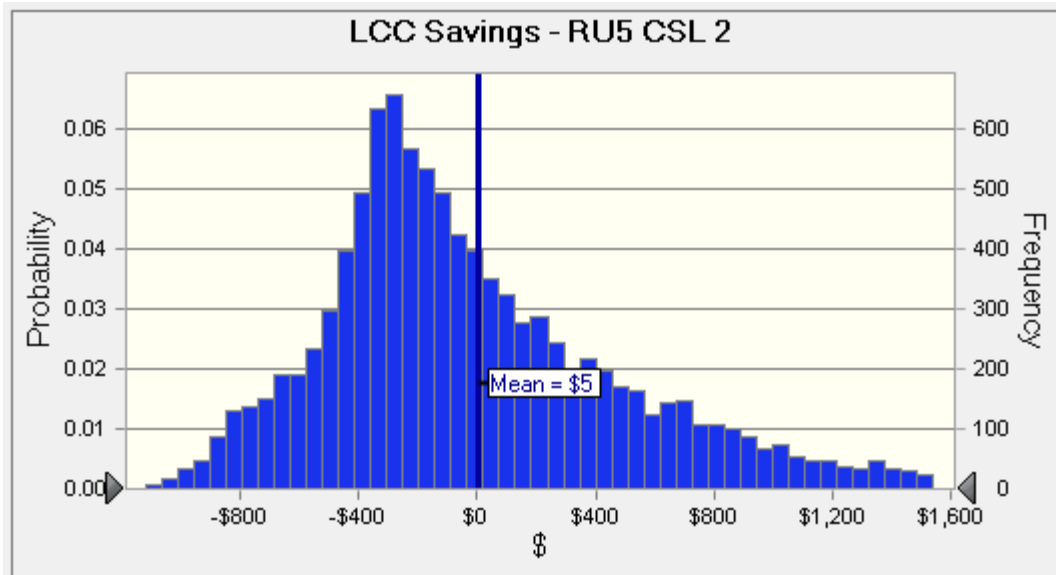


**Figure 8B.1.18 Representative Unit 4: Distribution of Life-Cycle Cost Savings for CSL 3**

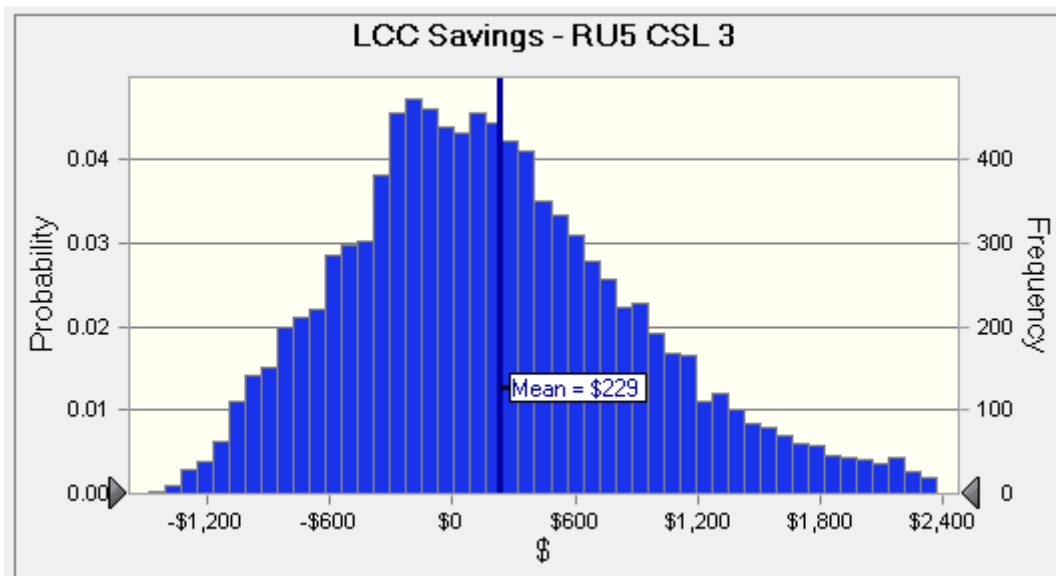
#### 8B.1.5 Representative Unit 5, Design C, 50 hp, 4 Poles, Enclosed



**Figure 8B.1.19 Representative Unit 5: Distribution of Life-Cycle Cost Savings for CSL 1**

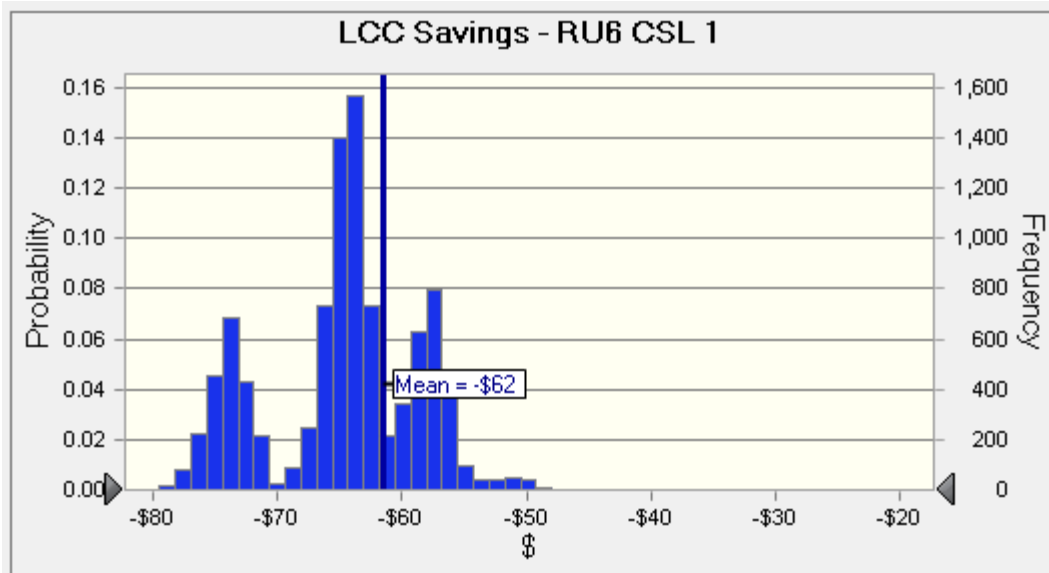


**Figure 8B.1.20 Representative Unit 5: Distribution of Life-Cycle Cost Savings for CSL 2**

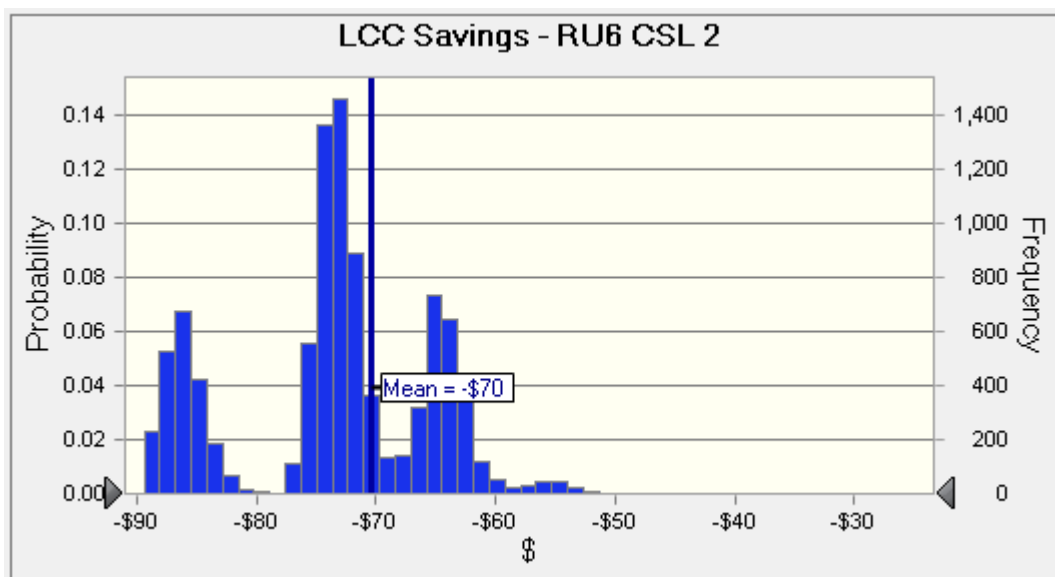


**Figure 8B.1.21 Representative Unit 5: Distribution of Life-Cycle Cost Savings for CSL 3**

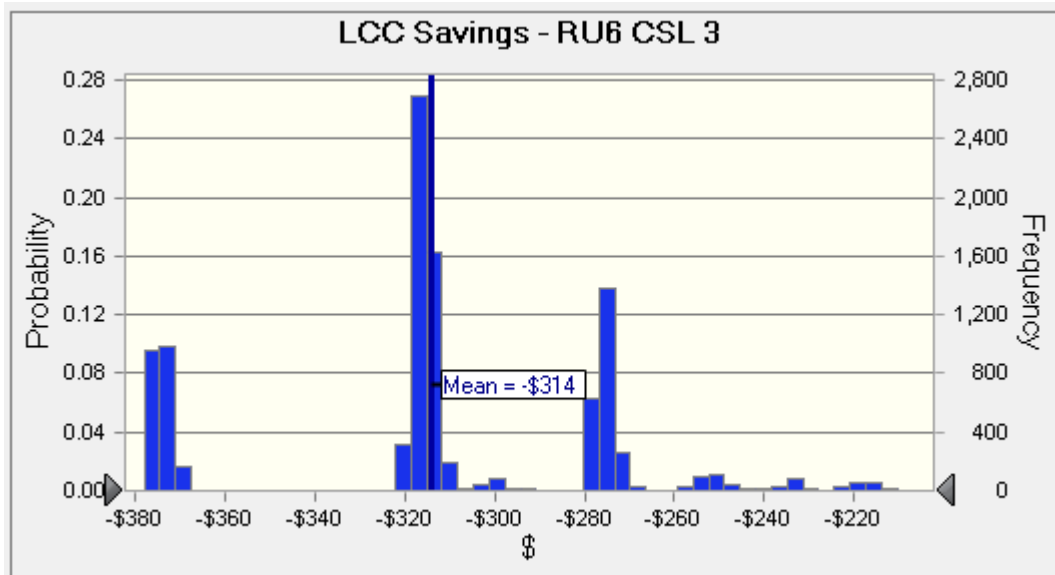
### 8B.1.6 Representative Unit 6, Fire Pump, 5 hp, 4 Poles, Enclosed



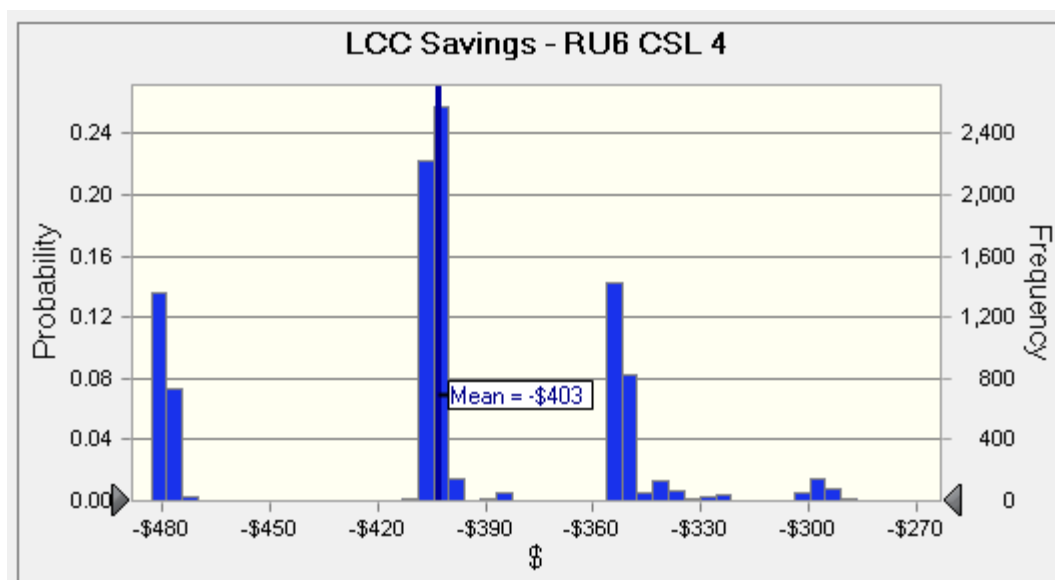
**Figure 8B.1.22 Representative Unit 6: Distribution of Life-Cycle Cost Savings for CSL 1**



**Figure 8B.1.23 Representative Unit 6: Distribution of Life-Cycle Cost Savings for CSL 2**



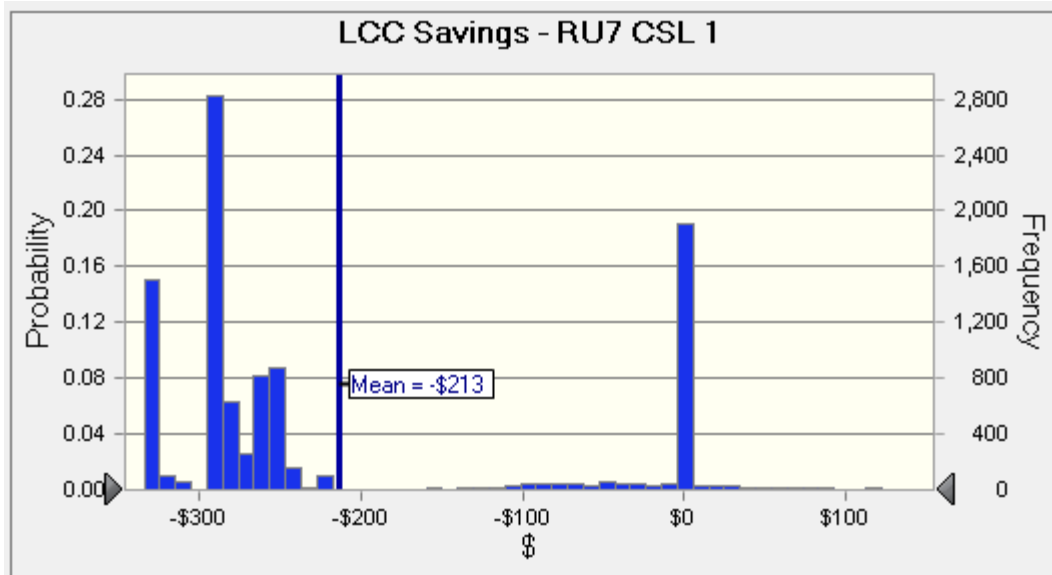
**Figure 8B.1.24 Representative Unit 6: Distribution of Life-Cycle Cost Savings for CSL 3**



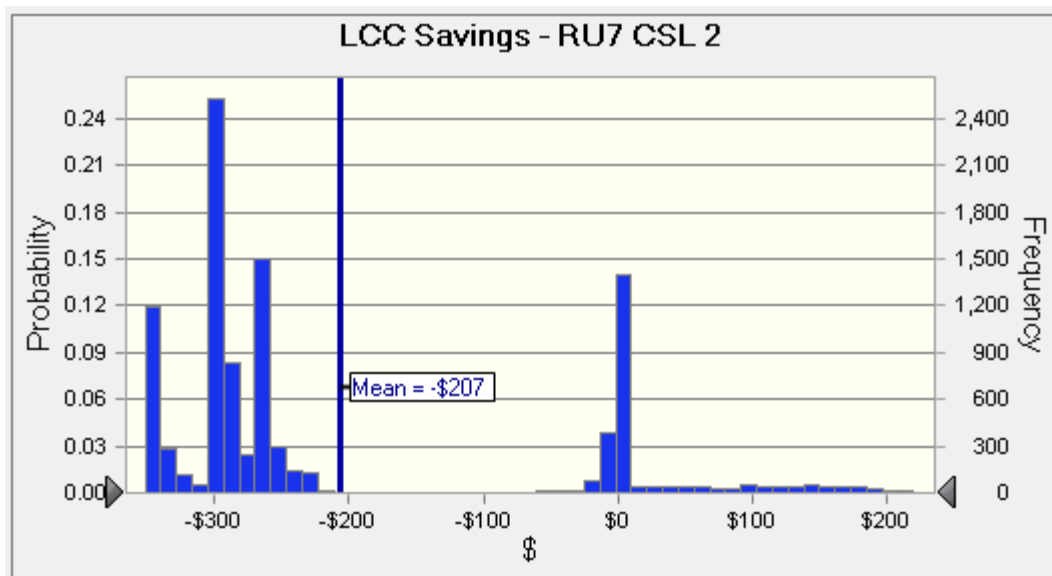
**Figure 8B.1.25 Representative Unit 6: Distribution of Life-Cycle Cost Savings for CSL 4**



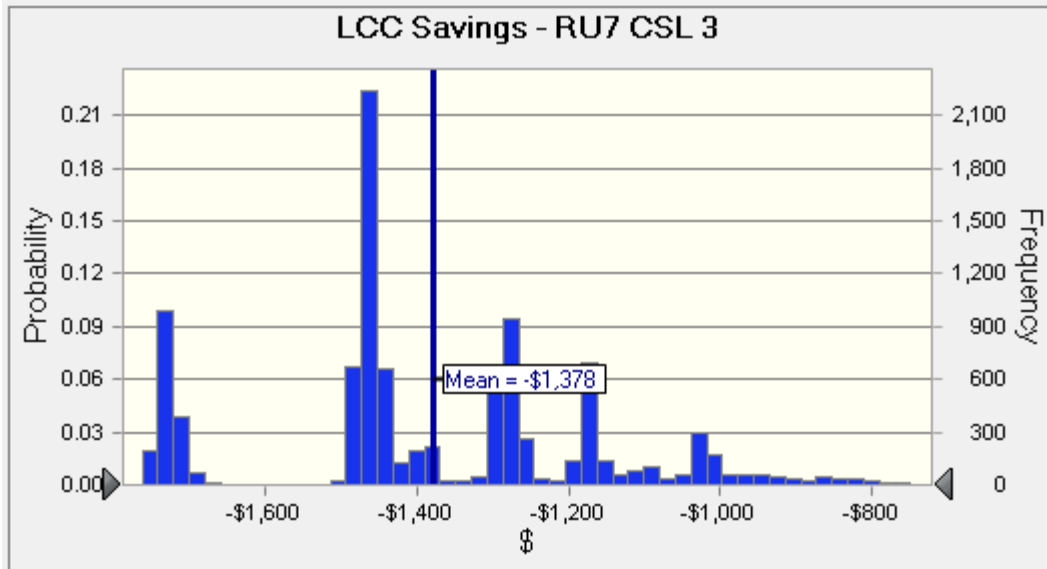
### 8B.1.7 Representative Unit 7, Fire Pump, 30 hp, 4 Poles, Enclosed



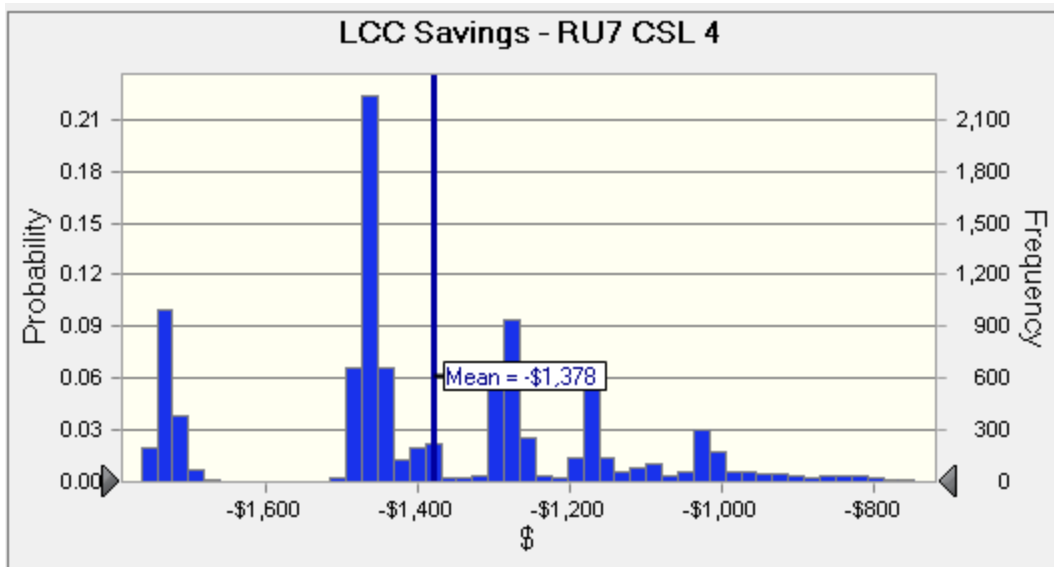
**Figure 8B.1.26 Representative Unit 7: Distribution of Life-Cycle Cost Savings for CSL 1**



**Figure 8B.1.27 Representative Unit 7: Distribution of Life-Cycle Cost Savings for CSL 2**

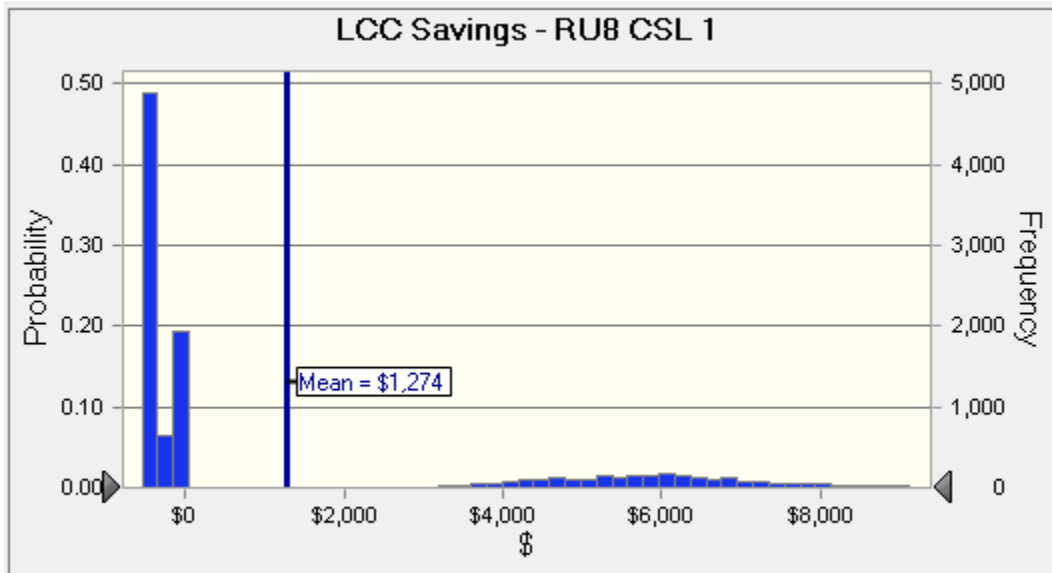


**Figure 8B.1.28 Representative Unit 7: Distribution of Life-Cycle Cost Savings for CSL 3**

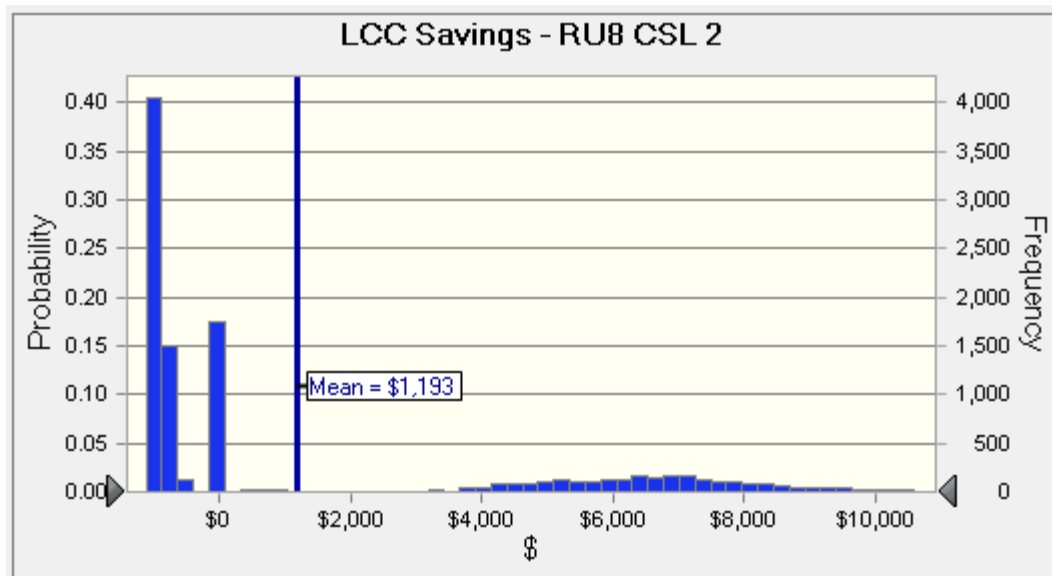


**Figure 8B.1.29 Representative Unit 7: Distribution of Life-Cycle Cost Savings for CSL 4**

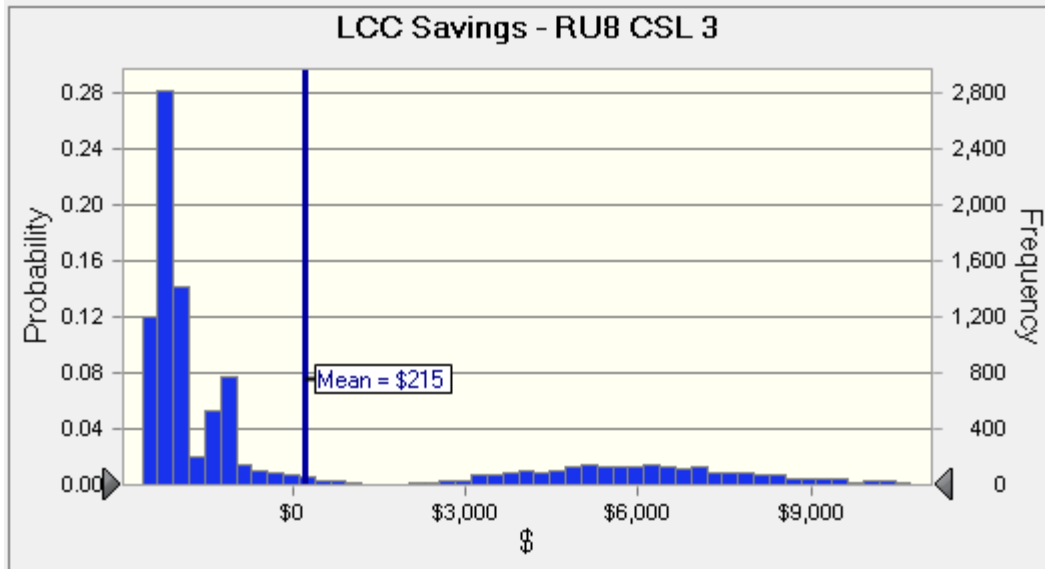
### 8B.1.8 Representative Unit 8, Fire Pump, 75 hp, 4 Poles, Enclosed



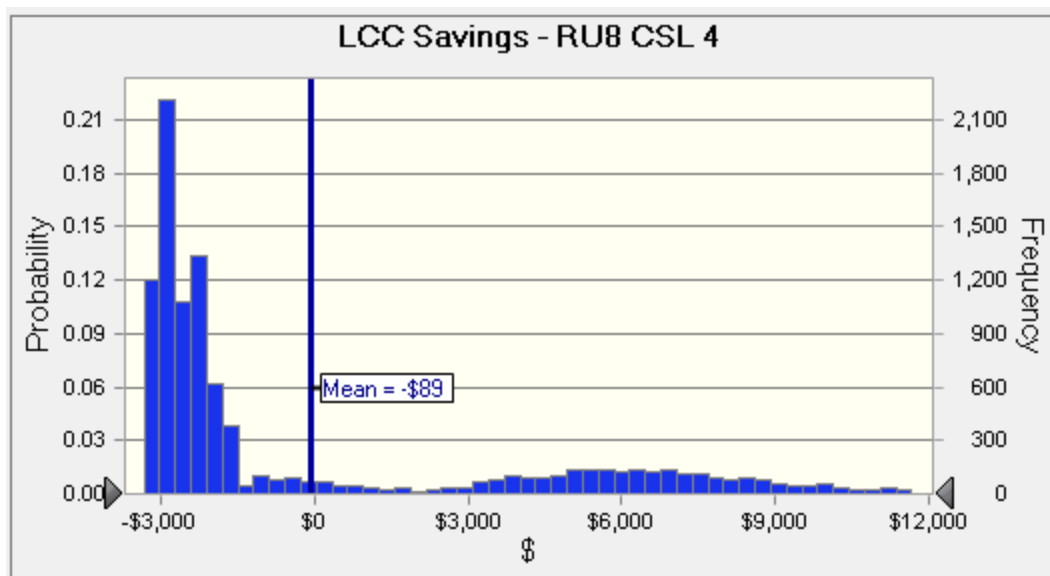
**Figure 8B.1.30 Representative Unit 8: Distribution of Life-Cycle Cost Savings for CSL 1**



**Figure 8B.1.31 Representative Unit 8: Distribution of Life-Cycle Cost Savings for CSL 2**



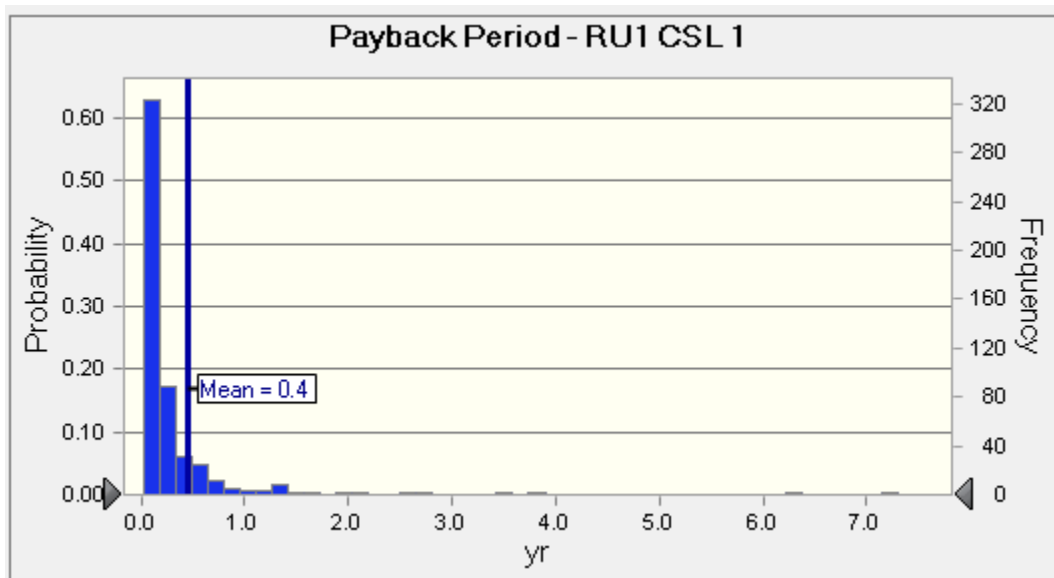
**Figure 8B.1.32 Representative Unit 8: Distribution of Life-Cycle Cost Savings for CSL 3**



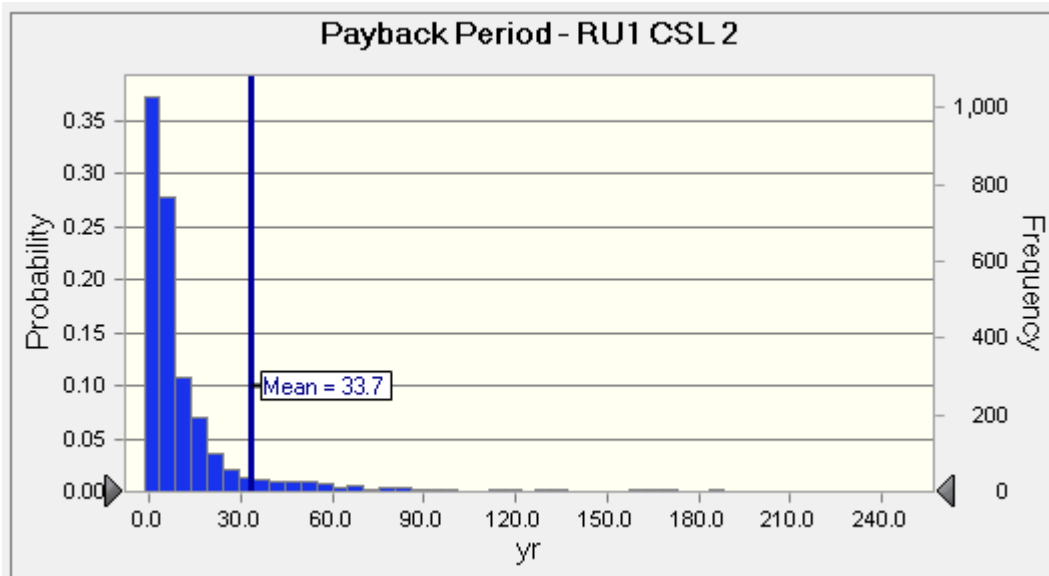
**Figure 8B.1.33 Representative Unit 8: Distribution of Life-Cycle Cost Savings for CSL 4**

## 8B.2 DISTRIBUTION OF PAYBACK PERIOD RESULTS

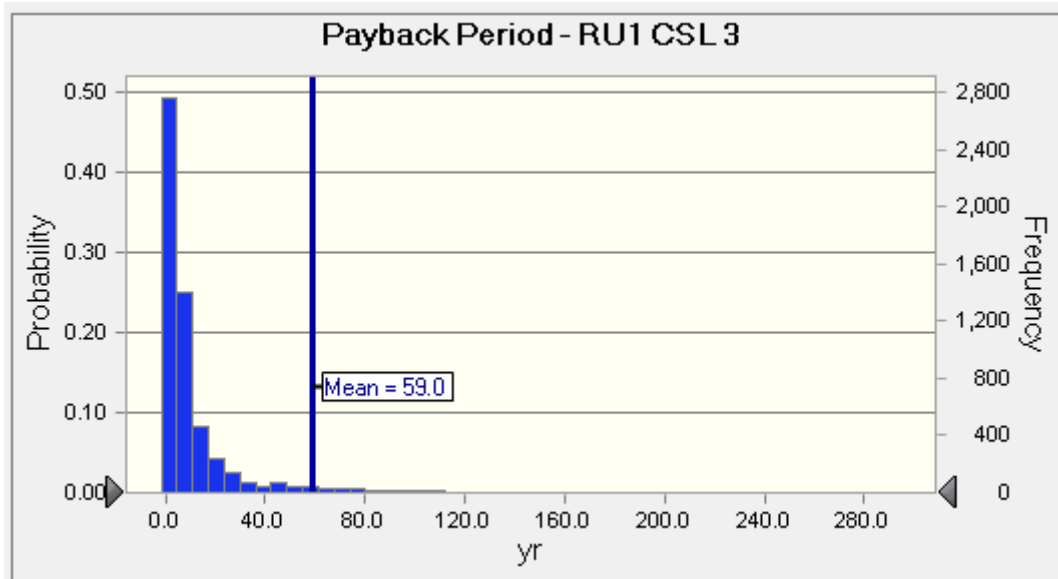
### 8B.2.1 Representative Unit 1, Design B, 5 hp, 4 Poles, Enclosed



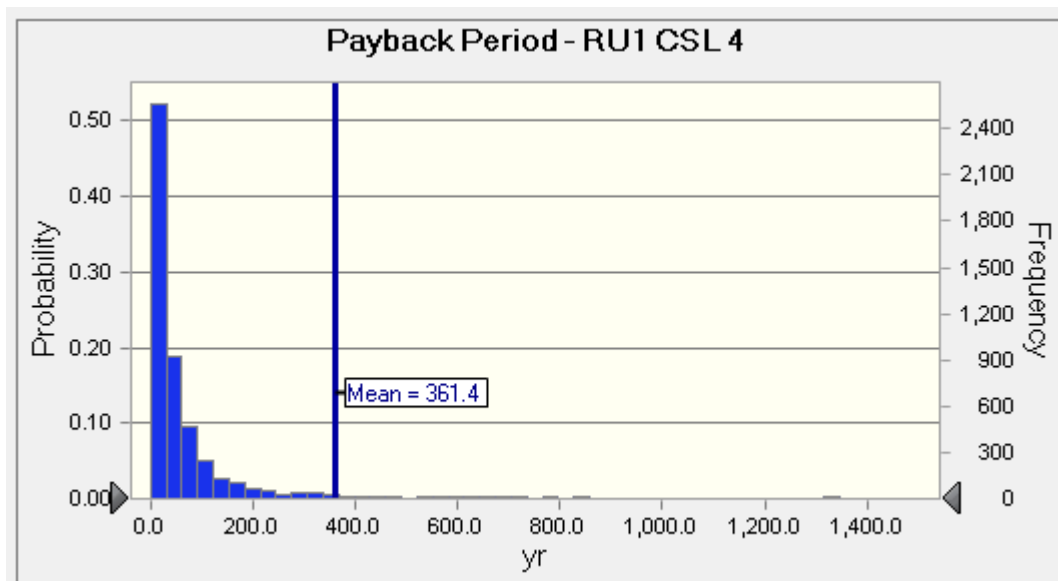
**Figure 8B.2.1** Representative Unit 1: Distribution of Payback Periods for CSL 1



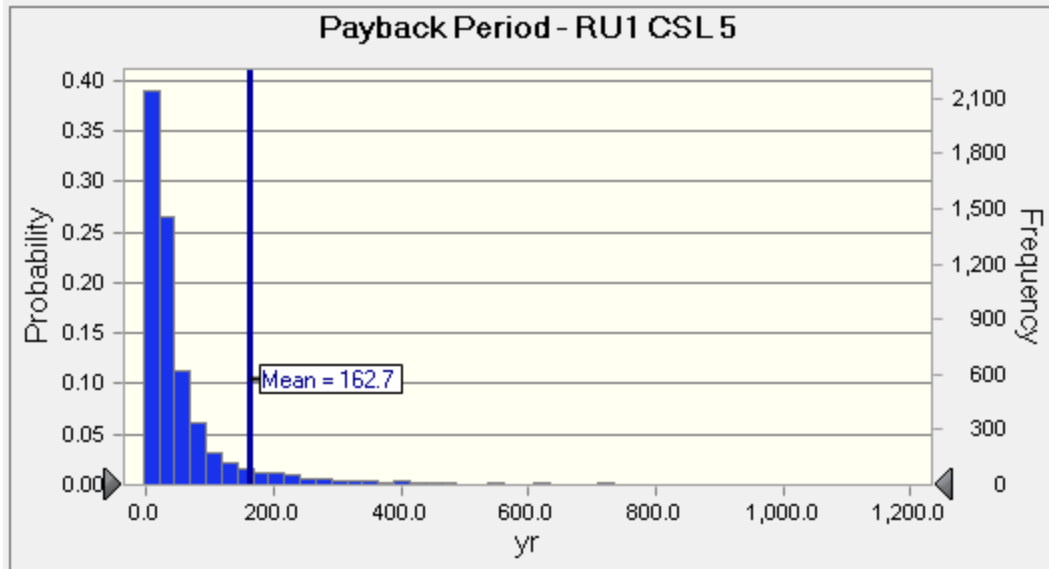
**Figure 8B.2.2** Representative Unit 1: Distribution of Payback Periods for CSL 2



**Figure 8B.2.3 Representative Unit 1: Distribution of Payback Periods for CSL 3**

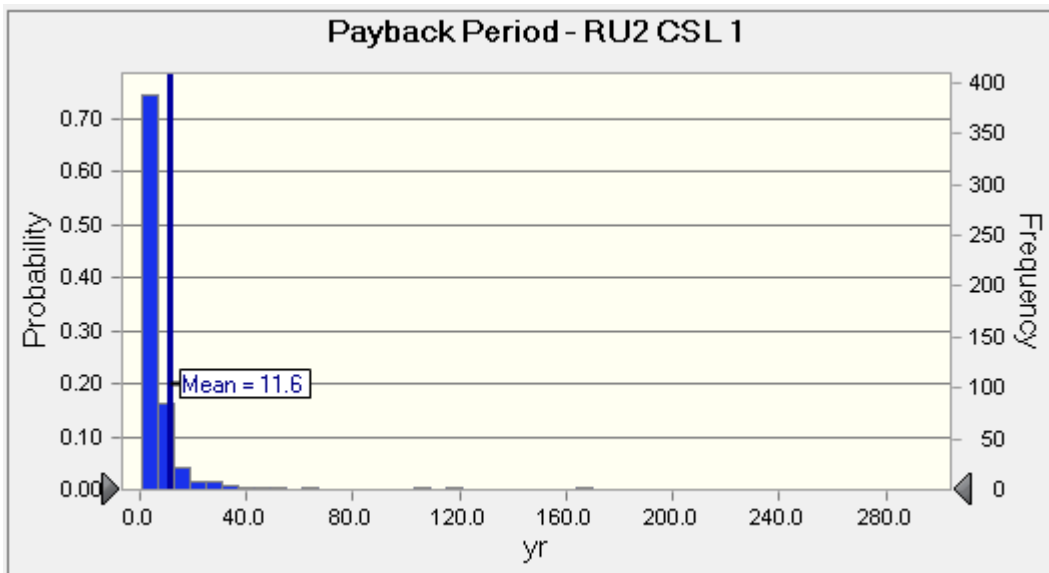


**Figure 8B.2.4 Representative Unit 1: Distribution of Payback Periods for CSL 4**

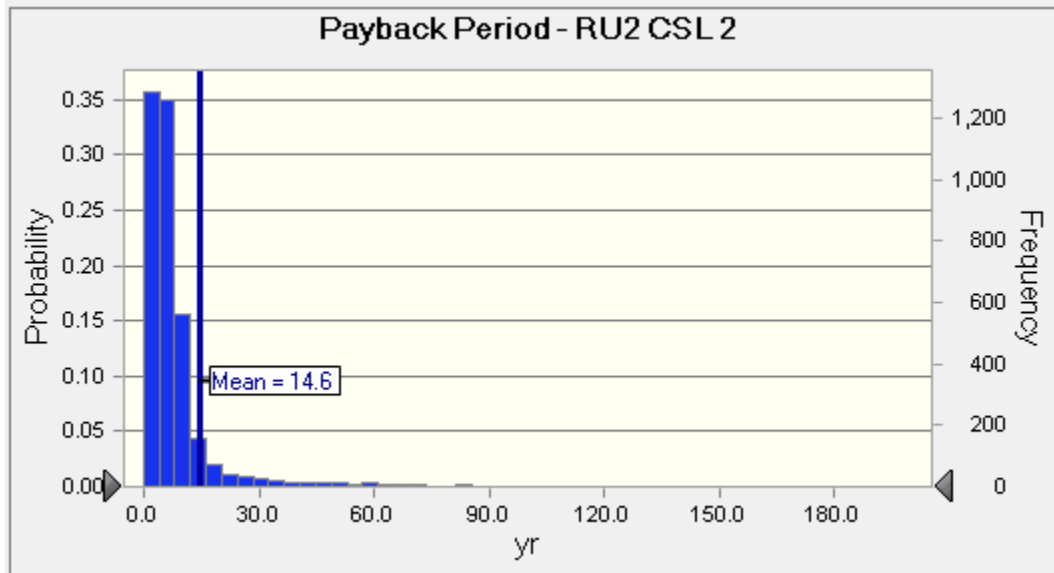


**Figure 8B.2.5 Representative Unit 1: Distribution of Payback Periods for CSL 5**

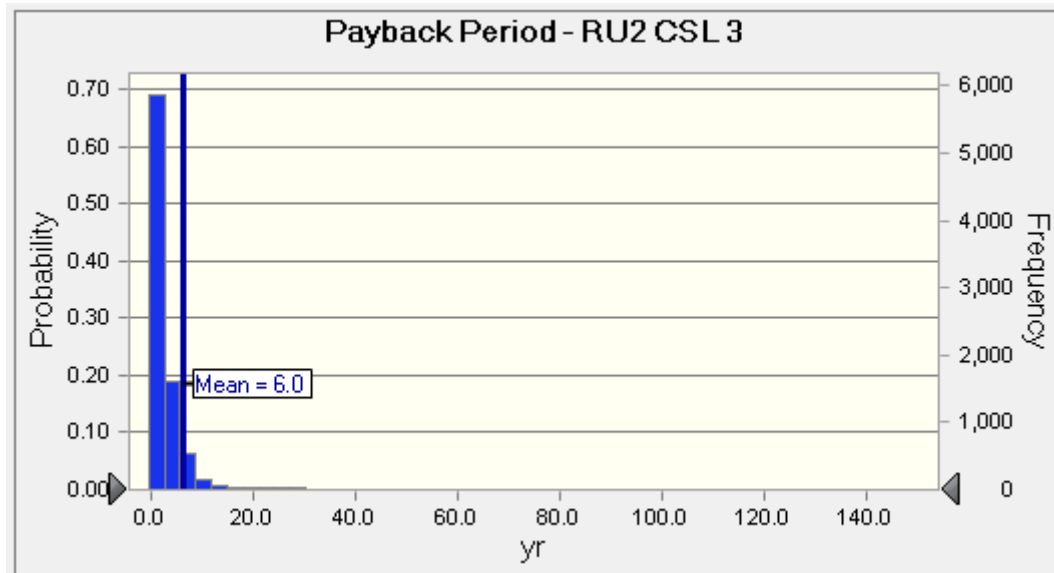
#### 8B.2.2 Representative Unit 2, Design B, 30 hp, 4 Poles, Enclosed



**Figure 8B.2.6 Representative Unit 2: Distribution of Payback Periods for CSL 1**

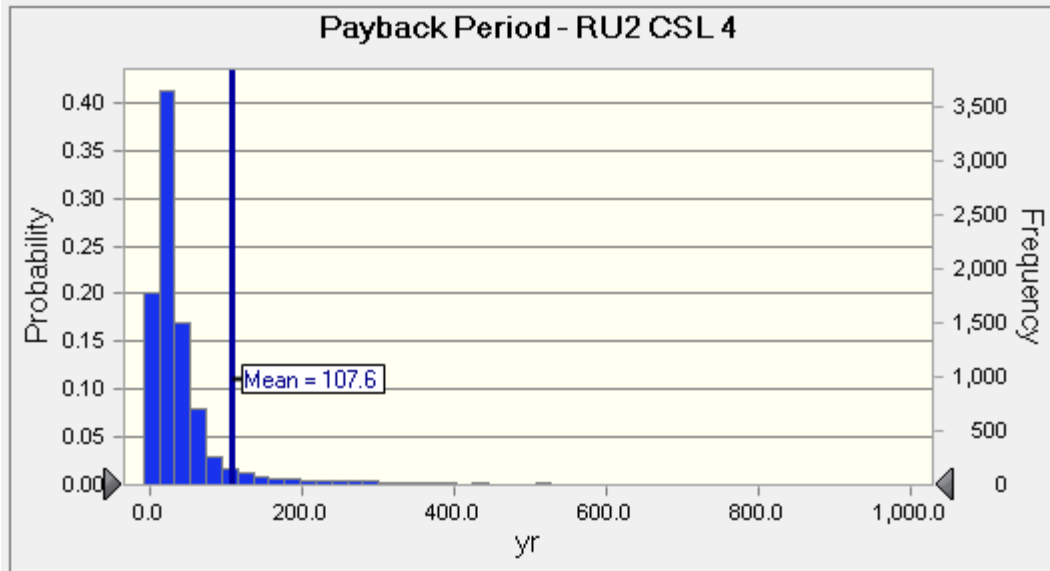


**Figure 8B.2.7 Representative Unit 2: Distribution of Payback Periods for CSL 2**

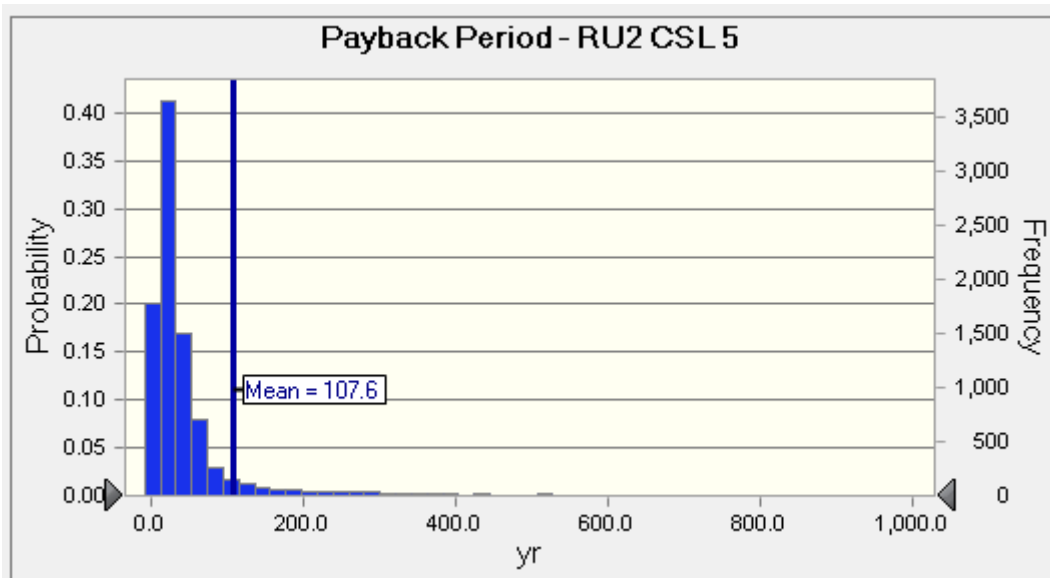


**Figure 8B.2.8 Representative Unit 2: Distribution of Payback Periods for CSL 3**



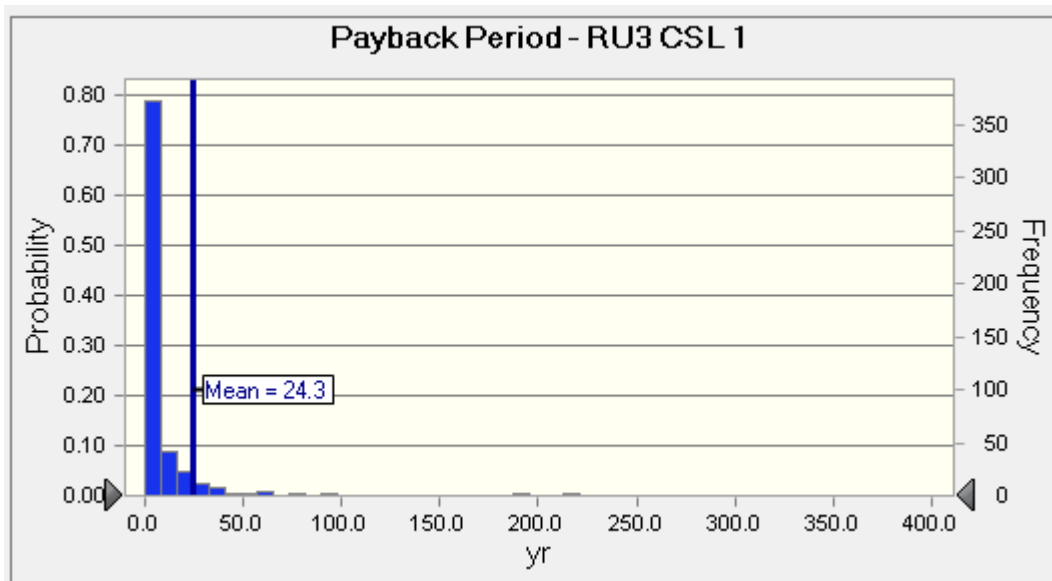


**Figure 8B.2.9 Representative Unit 2: Distribution of Payback Periods for CSL 4**

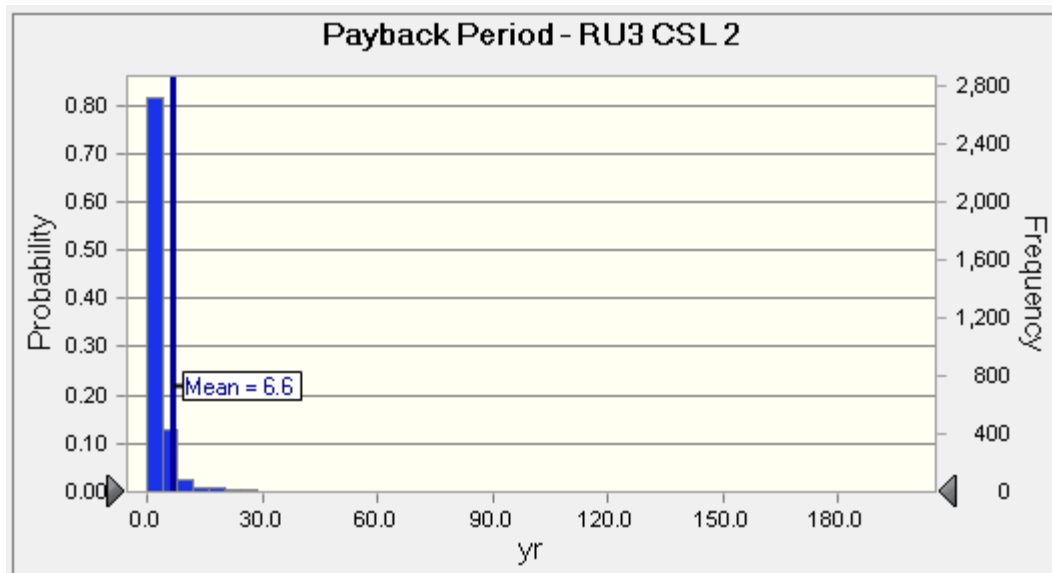


**Figure 8B.2.10 Representative Unit 2: Distribution of Payback Periods for CSL 5**

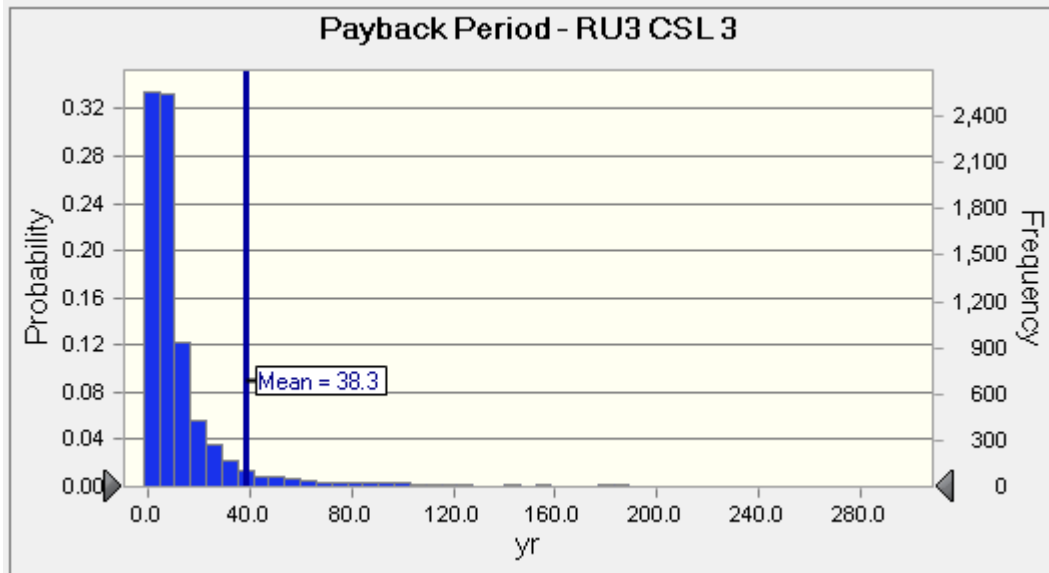
### 8B.2.3 Representative Unit 3, Design B, 75 hp, 4 Poles, Enclosed



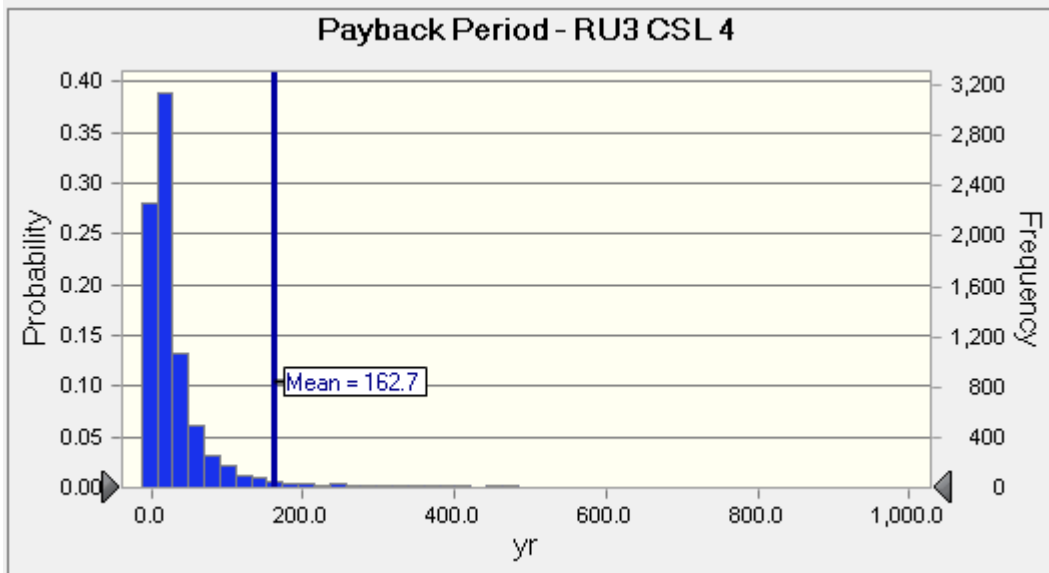
**Figure 8B.2.11 Representative Unit 3: Distribution of Payback Periods for CSL 1**



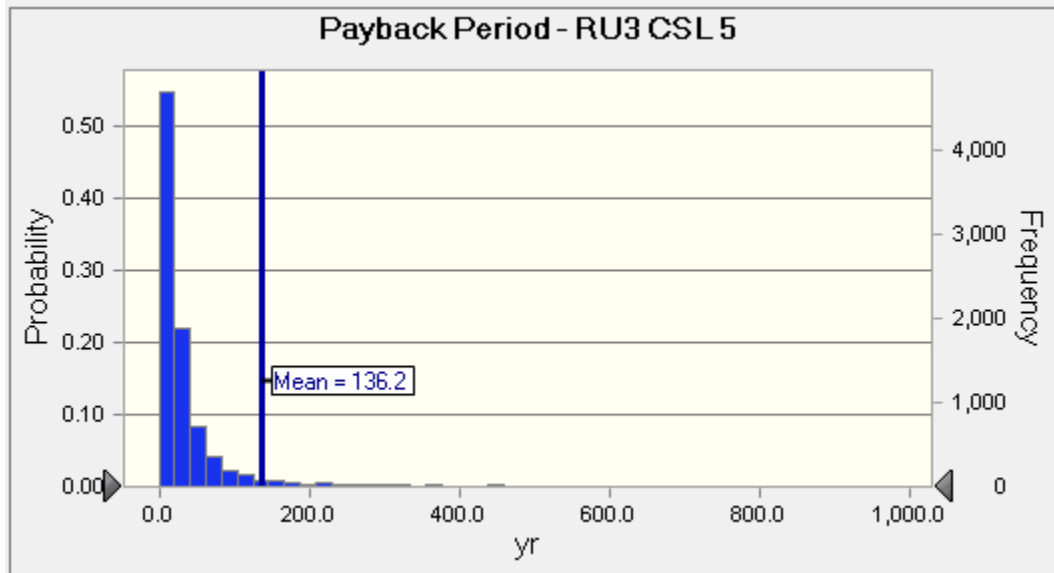
**Figure 8B.2.12 Representative Unit 3: Distribution of Payback Periods for CSL 2**



**Figure 8B.2.13 Representative Unit 3: Distribution of Payback Periods for CSL 3**

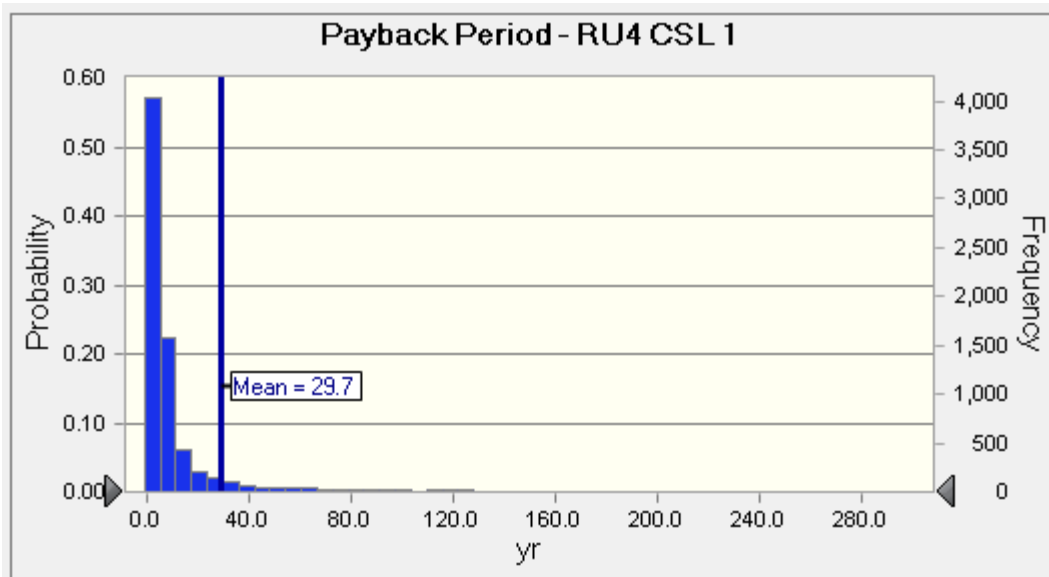


**Figure 8B.2.14 Representative Unit 3: Distribution of Payback Periods for CSL 4**

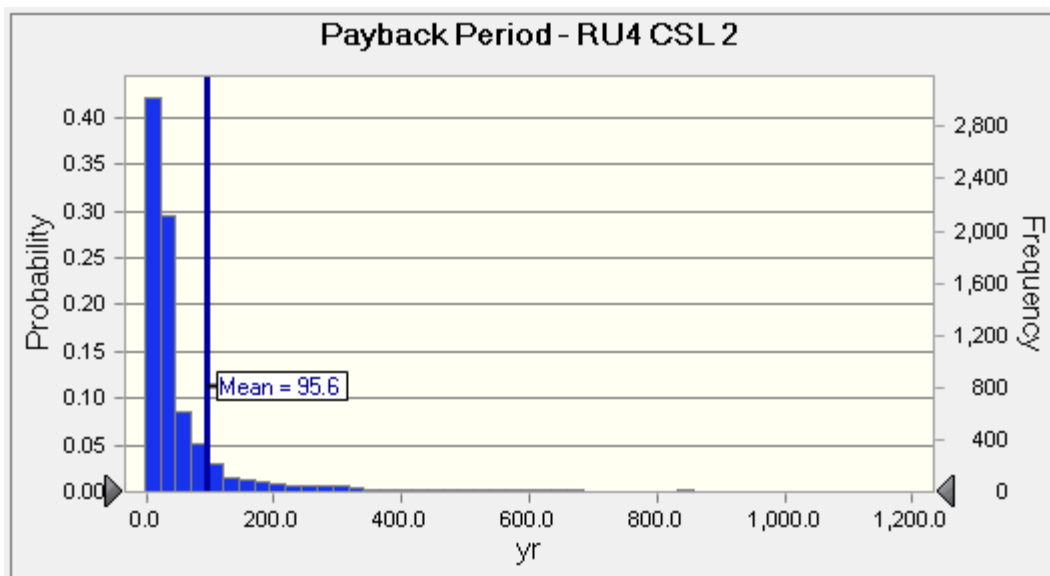


**Figure 8B.2.15 Representative Unit 3: Distribution of Payback Periods for CSL 5**

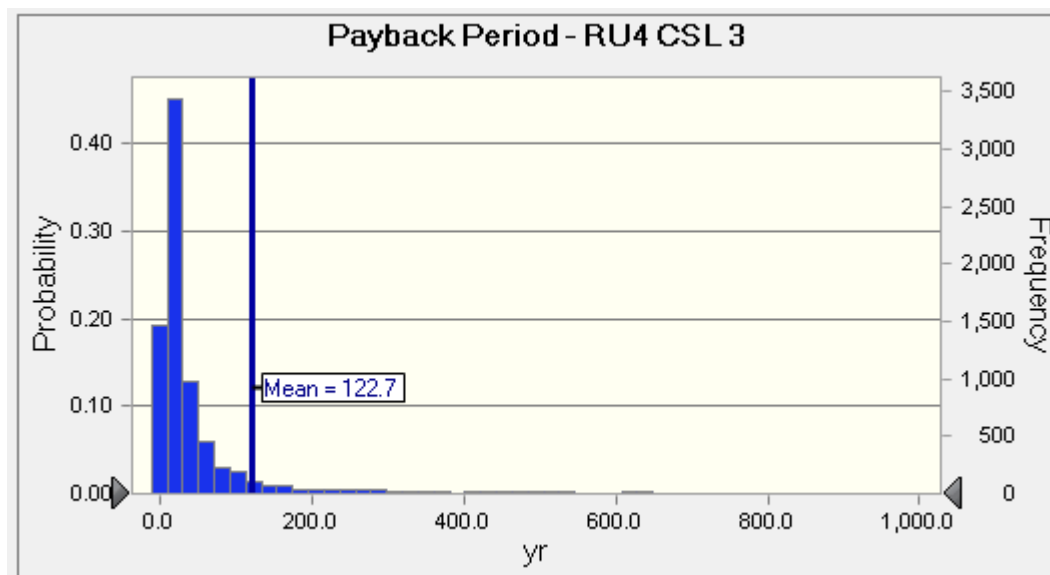
#### 8B.2.4 Representative Unit 4, Design C, 5 hp, 4 Poles, Enclosed



**Figure 8B.2.16 Representative Unit 4: Distribution of Payback Periods for CSL 1**

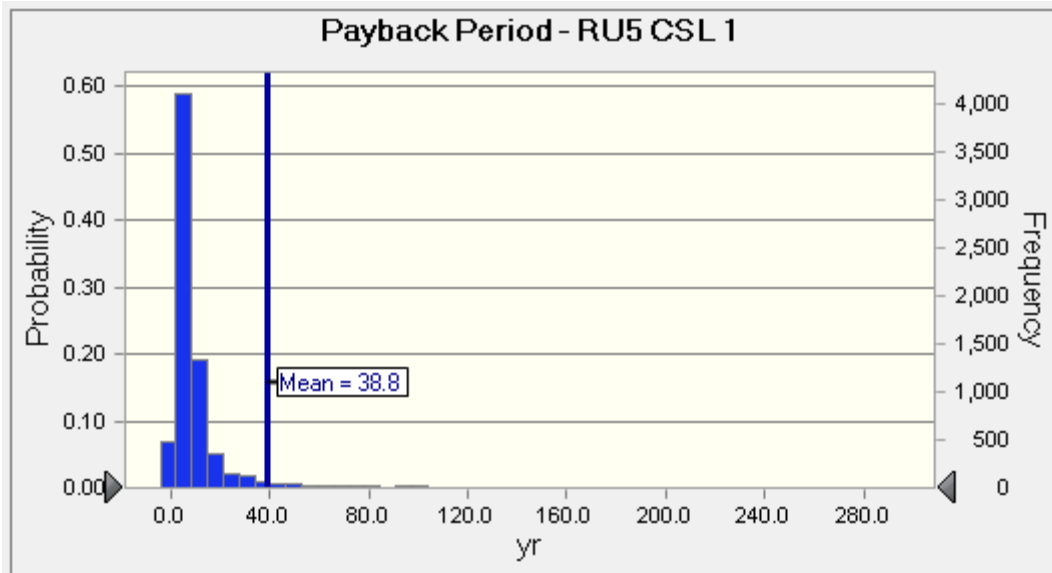


**Figure 8B.2.17 Representative Unit 4: Distribution of Payback Periods for CSL 2**

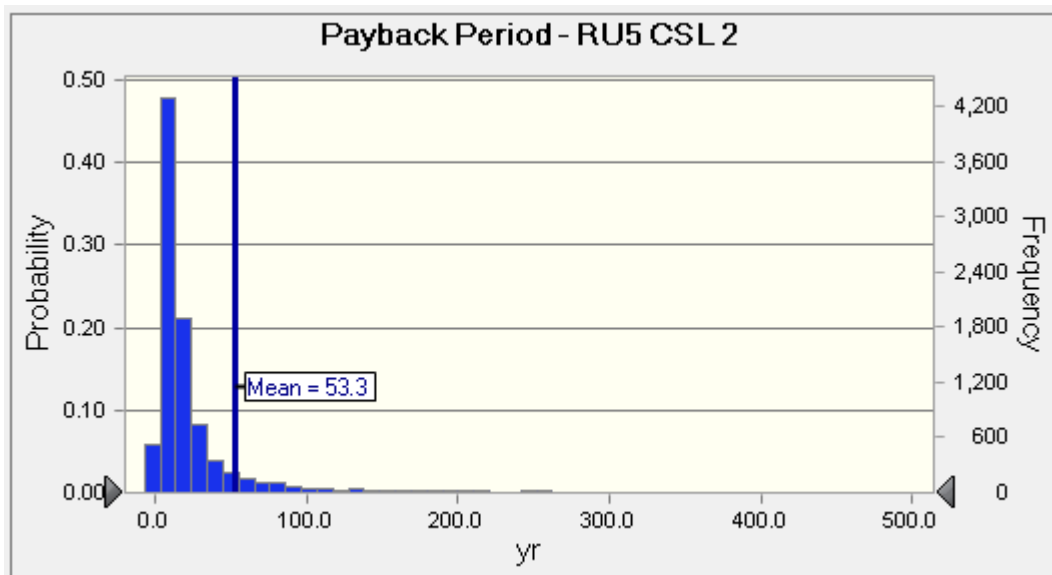


**Figure 8B.2.18 Representative Unit 4: Distribution of Payback Periods for CSL 3**

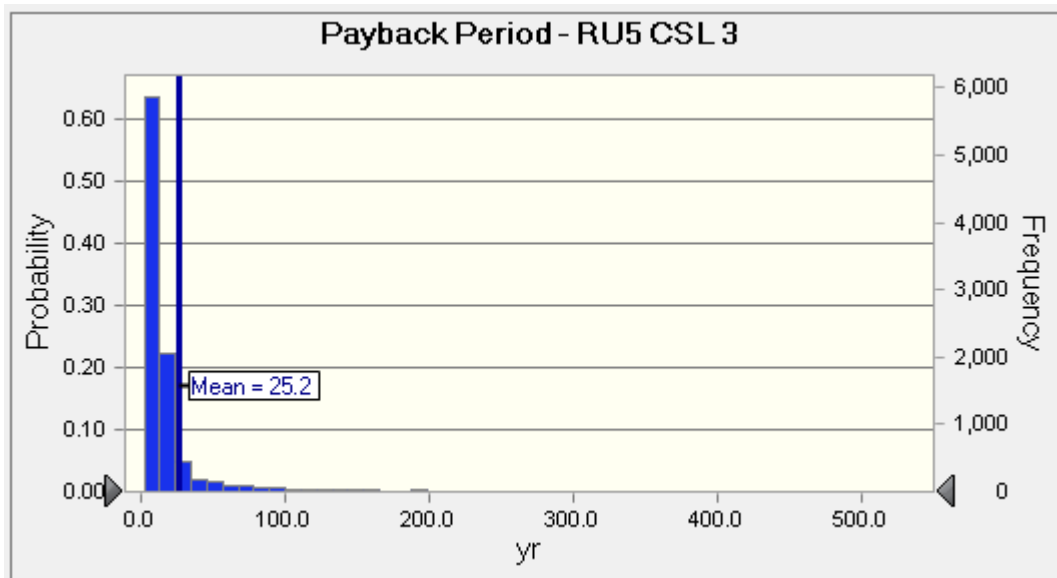
### 8B.2.5 Representative Unit 5, Design C, 50 hp, 4 Poles, Enclosed



**Figure 8B.2.19 Representative Unit 5: Distribution of Payback Periods for CSL 1**

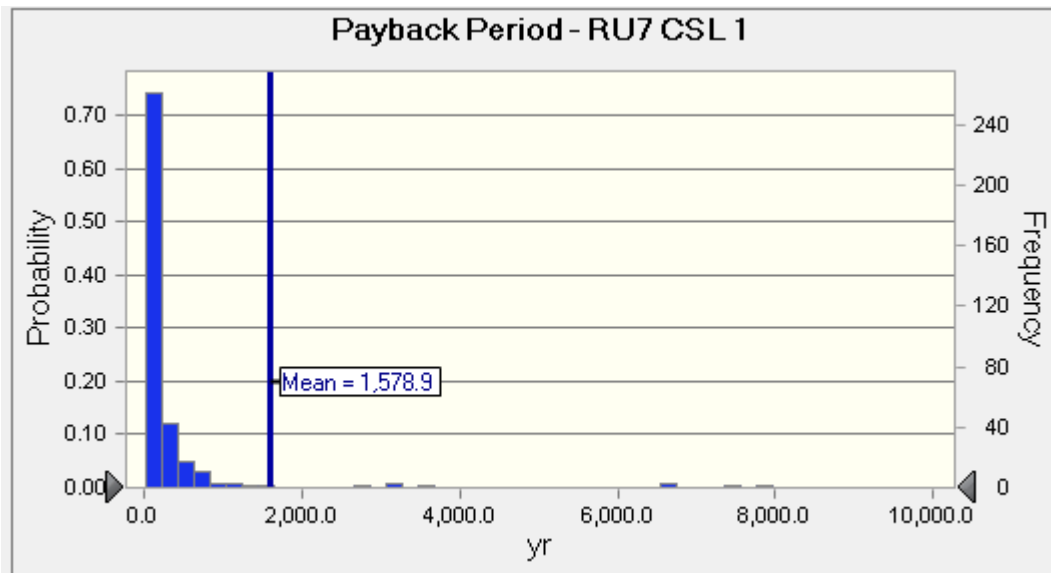


**Figure 8B.2.20 Representative Unit 5: Distribution of Payback Periods for CSL 2**

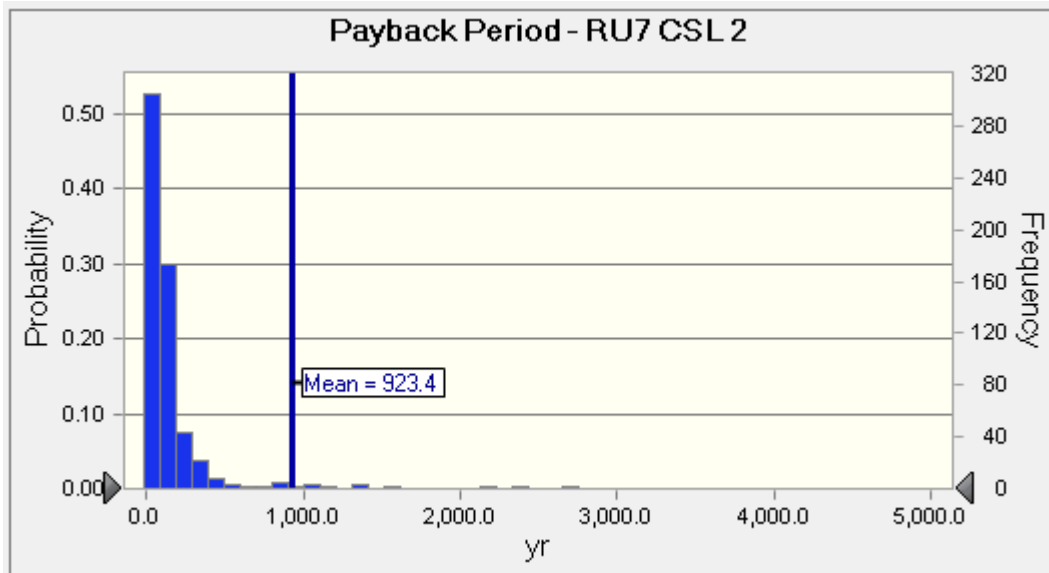


**Figure 8B.2.21 Representative Unit 5: Distribution of Payback Periods for CSL 3**

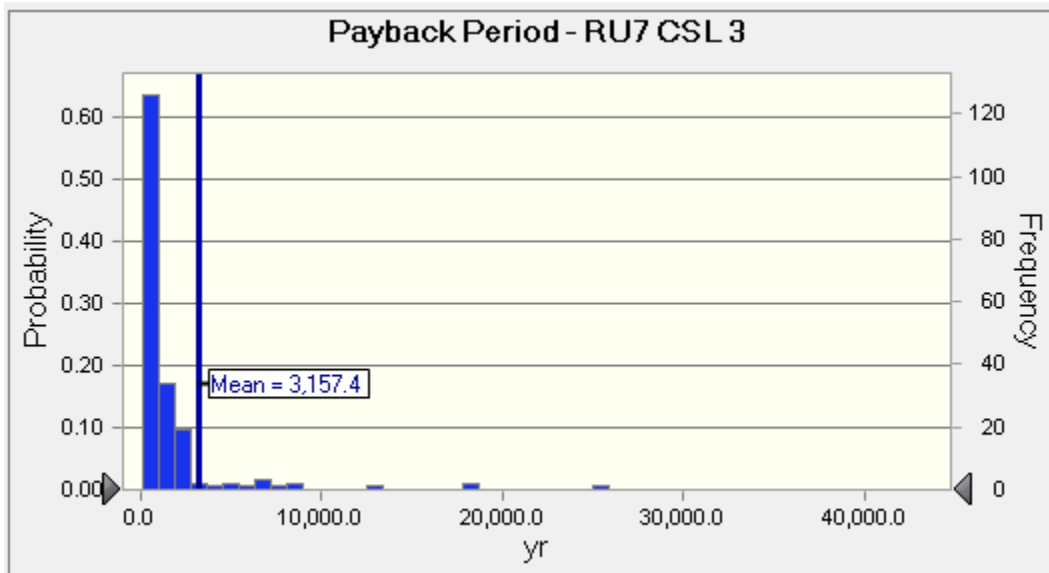
#### 8B.2.6 Representative Unit 7, Fire Pump, 30 hp, 4 Poles, Enclosed



**Figure 8B.2.22 Representative Unit 7: Distribution of Payback Periods for CSL 1**

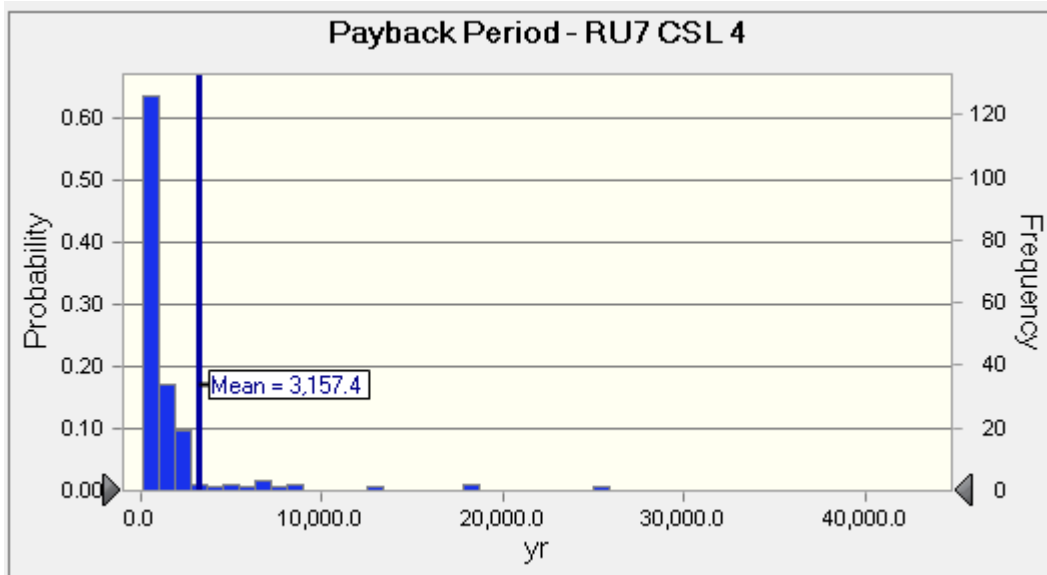


**Figure 8B.2.23 Representative Unit 7: Distribution of Payback Periods for CSL 2**



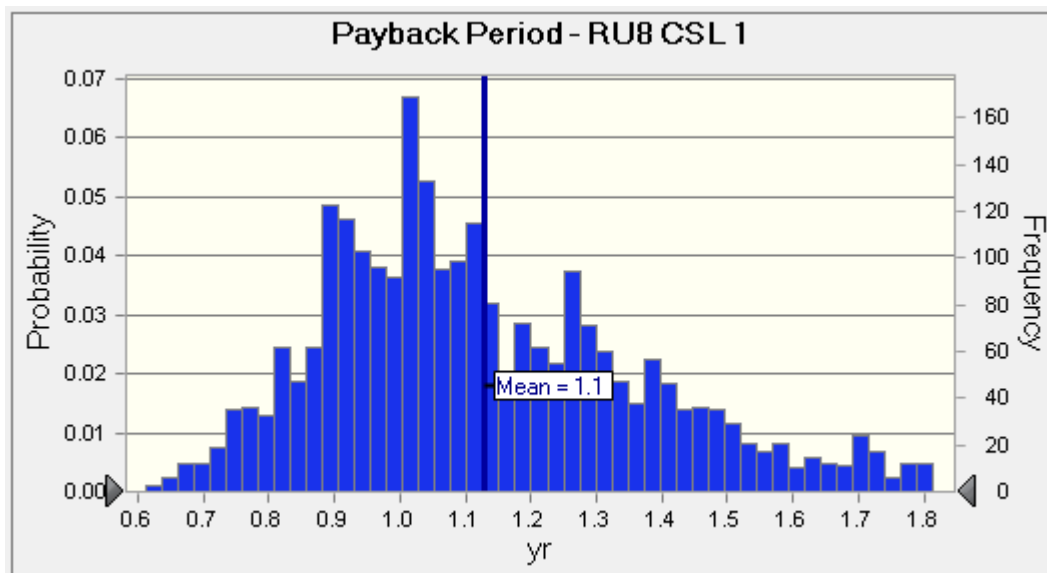
**Figure 8B.2.24 Representative Unit 7: Distribution of Payback Periods for CSL 3**



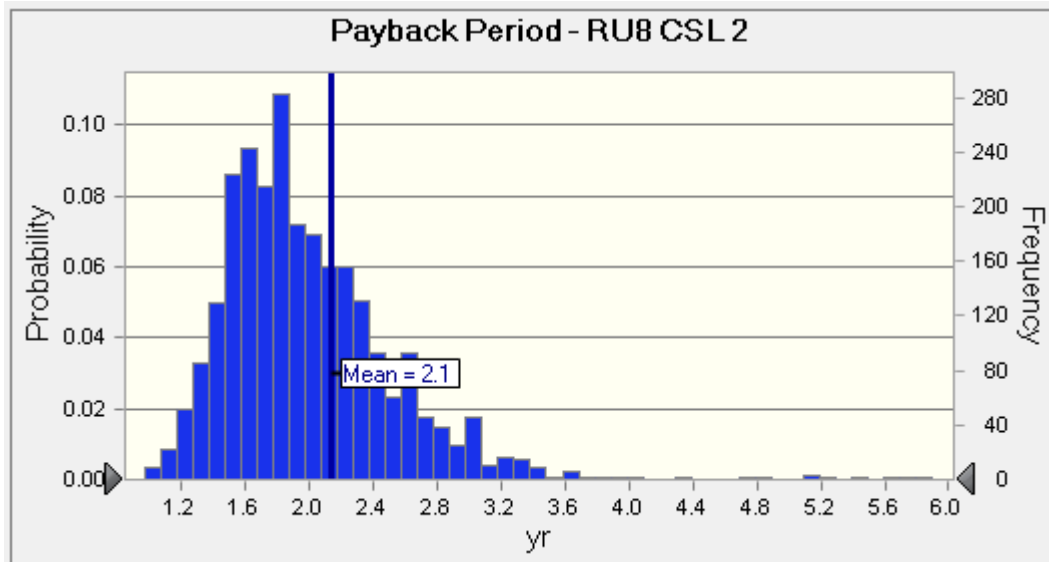


**Figure 8B.2.25 Representative Unit 7: Distribution of Payback Periods for CSL 4**

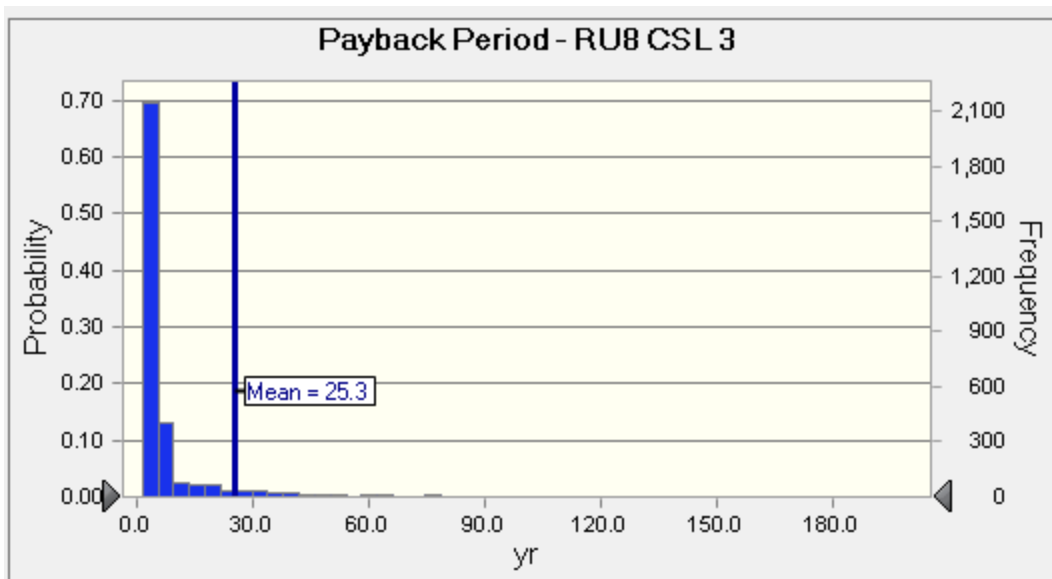
#### 8B.2.7 Representative Unit 8, Fire Pump, 75 hp, 4 Poles, Enclosed



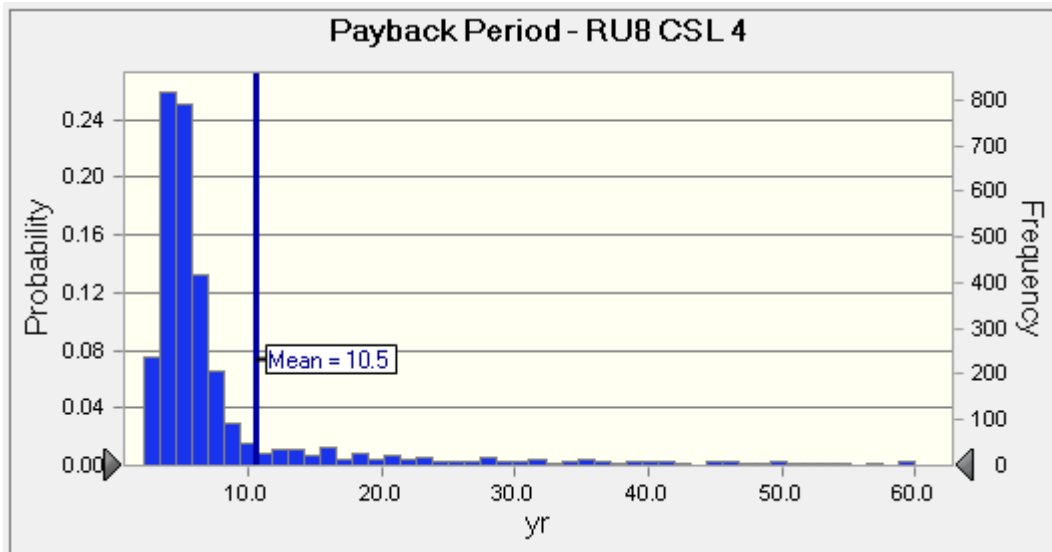
**Figure 8B.2.26 Representative Unit 8: Distribution of Payback Periods for CSL 1**



**Figure 8B.2.27 Representative Unit 8: Distribution of Payback Periods for CSL 2**



**Figure 8B.2.28 Representative Unit 8: Distribution of Payback Periods for CSL 3**



**Figure 8B.2.29 Representative Unit 8: Distribution of Payback Periods for CSL 4**